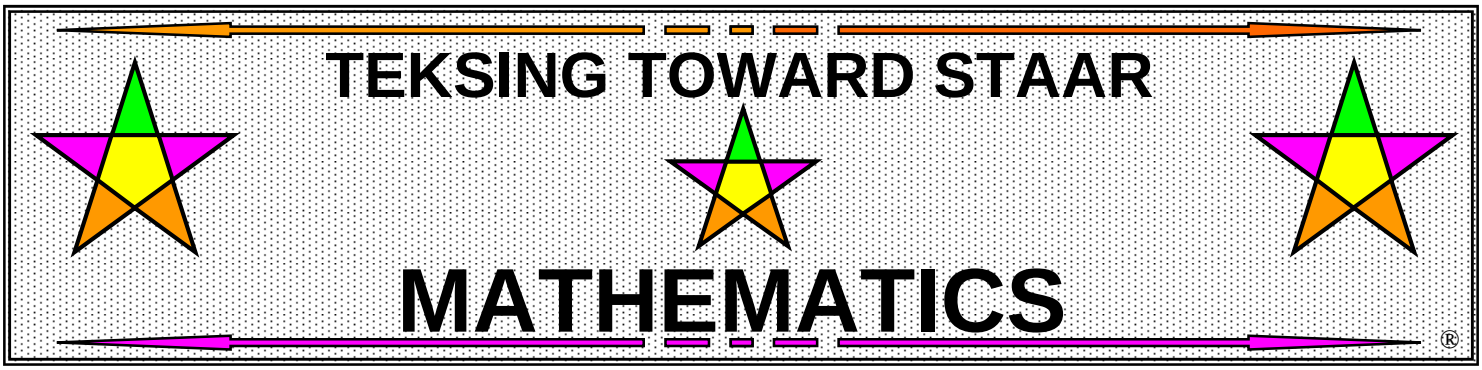
TEKSING TOWARD STAAR

MATHEMATICS®

GRADE 4

STAAR Format Mini-Assessments and Periodic Assessments



OVERVIEW

Grade 4 Mini-Assessments and Periodic Assessments

MINI-ASSESSMENTS

The Mini-Assessments were created with all students in mind and provide teachers with 10-question assessments that address each TEKS in each STAAR Reporting Category with focus on the Process Standards TEKS. Each Mini-Assessment is correlated to a specific Category and TEKS. These assessments should not be utilized until after all instruction has been completed for the TEKS addressed in the assessment.

- The Mini-Assessments can be utilized at any time after instruction has occurred for the TEKS addressed in the assessment.
- Allow approximately 20 minutes for completion of each Mini-Assessment (the amount of time may vary for some assessments). No assistance should be given during this time.
- The Mini-Assessments should be completed by individual students, graded by the teacher and performance discussed by the teacher with individual students.

PERIODIC ASSESSMENTS

The Periodic Assessments were created with all students in mind and provide teachers with a 20-question assessment tool to periodically assess multi-TEKS. These assessments should not be utilized until after all instruction has been completed for all TEKS addressed in the assessment.

- The Periodic Assessments can be utilized at any time after instruction has occurred for all TEKS addressed in the assessment.
- Allow approximately 40 minutes for completion of each Periodic Assessment (the amount of time may vary for some assessments). No assistance should be given during this time.
- The Periodic Assessments should be completed by individual students, graded by the teacher and performance discussed by the teacher with individual students.

An answer key is provided for the Mini-Assessments and Periodic Assessments. Teachers should consider creation of a personalized Solutions Manual to become more familiar with the Revised TEKS and assessment of the Revised TEKS, as well as to formulate various solution strategies for each question. Teachers are encouraged to communicate with the author regarding discussion of any question in this document.

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GRADE 4

STAAR Format Mini-Assessments

Organized by TEKS Categories

TEKSING TOWARD STAAR
GRADE 4 MINI-ASSESSMENTS
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TEKS Category 1 - Mathematical Process Standards

These student expectations will not be listed under a separate TEKS category. Instead, they will be incorporated into questions across TEKS categories since the application of mathematical process standards is part of each knowledge statement.

(4.1) Mathematical Process Standards

The student uses mathematical processes to acquire and demonstrate mathematical understanding.

TEKSING TOWARD STAAR
GRADE 4 MINI-ASSESSMENTS
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TEKS Category 2: Number and Operations

(4.2) Number and Operations

The student applies mathematical process standards to represent, compare, and order whole numbers decimals and understand relationships related to place value.

(4.3) Number and Operations

The student applies mathematical process standards to represent and generate fractions to solve problems.

TEKS Category 2: Number and Operations

(4.4) Number and Operations
The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Readiness	**4.4(A)**	add and subtract whole numbers and decimals to the hundredths place using the standard algorithm	3
Supporting	**4.4(B)**	determine products of a number and 10 or 100 using properties of operations and place value understandings	2
Supporting	**4.4(C)**	represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15	2
Supporting	**4.4(D)**	use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties	2
Supporting	**4.4(E)**	represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations	2
Supporting	**4.4(F)**	use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor	2
Supporting	**4.4(G)**	round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers	2
Readiness	**4.4(H)**	solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders	3

TEKS Category 3: Algebraic Reasoning

(4.5) Algebraic Reasoning
The student applies mathematical process standards to develop concepts of expressions and equations.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Readiness	**4.5(A)**	represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity	3
Readiness	**4.5(B)**	represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence	3
Readiness	**4.5(D)**	solve problems related to perimeter and area of rectangles where dimensions are whole numbers	3

TEKS Category 4: Geometry and Measurement

(4.6) Geometry and Measurement

The student applies mathematical process standards to analyze geometric attributes in order to develop generalizations about their properties.

(4.7) Geometry and Measurement

The student applies mathematical process standards to solve problems involving angles less than or equal to 180 degrees.

(4.8) Geometry and Measurement

The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement.

TEKS Category 5: Data Analysis

(4.9) Data Analysis
The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.

TEKS Category 5: Data Analysis

(4.10) Personal Financial Literacy
The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.

TEKS CATEGORY 1 - PROCESS STANDARDS										
TEKS Assessed Mini-Assessment Number	**Question Number and Answer**									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
4.1A Mini-Assessment 1	B	H	D	H	C	F	B	G	C	J
4.1A Mini-Assessment 2	B	H	D	H	D	G	D	F	A	G
4.1A Mini-Assessment 3	A	J	C	J	C	H	D	J	B	H
4.1B Mini-Assessment 1	A	G	D	H	A	G	A	G	B	H
4.1B Mini-Assessment 2	D	H	B	F	C	J	C	F	B	H
4.1B Mini-Assessment 3	C	G	D	G	B	H	B	G	C	360
4.1C Mini-Assessment 1	C	H	C	F	B	H	A	G	C	J
4.1C Mini-Assessment 2	A	F	A	G	A	J	B	H	C	H
4.1C Mini-Assessment 3	C	G	D	F	A	J	B	48	D	H
4.1D Mini-Assessment 1	300	J	D	J	B	H	D	J	D	J
4.1D Mini-Assessment 2	B	F	C	F	B	J	C	G	C	F
4.1D Mini-Assessment 3	B	G	C	J	D	H	B	G	A	G
4.1E Mini-Assessment 1	D	J	D	J	B	H	76	J	D	H
4.1E Mini-Assessment 2	C	H	B	J	D	J	B	G	A	H
4.1E Mini-Assessment 3	D	J	B	J	C	J	C	G	C	F
4.1F Mini-Assessment 1	A	H	C	F	D	G	C	H	B	J
4.1F Mini-Assessment 2	D	H	A	F	B	G	C	F	587	G
4.1F Mini-Assessment 3	C	F	D	J	D	H	B	J	C	G
4.1G Mini-Assessment 1	B	G	D	F	A	G	C	225	608	H
4.1G Mini-Assessment 2	D	H	333	244	B	J	C	J	D	H
4.1G Mini-Assessment 3	A	J	C	F	D	H	B	J	C	H

TEKS CATEGORY 2 - NUMBER AND OPERATIONS

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
4.2A Mini-Assessment 1	D	J	A	G	C	H	B	F	D	F
4.2A Mini-Assessment 2	B	F	B	J	B	F	B	J	30	J
4.2B Mini-Assessment 1	C	H	C	H	D	500	D	H	C	70
4.2B Mini-Assessment 2	C	J	C	J	B	G	D	J	C	G
4.2B Mini-Assessment 3	A	G	D	H	D	H	D	G	D	F
4.2C Mini-Assessment 1	C	F	A	G	C	J	D	H	A	F
4.2C Mini-Assessment 2	C	F	D	H	D	H	C	F	B	J
4.2D Mini-Assessment 1	D	J	370	H	D	F	D	H	C	F
4.2D Mini-Assessment 2	B	J	D	G	D	F	A	H	B	F
4.2E Mini-Assessment 1	C	G	B	G	C	H	C	G	B	H
4.2E Mini-Assessment 2	C	G	B	F	A	J	D	H	C	J
4.2F Mini-Assessment 1	D	G	A	G	C	G	A	G	B	J
4.2F Mini-Assessment 2	D	J	B	G	A	H	D	F	B	F
4.2G Mini-Assessment 1	C	J	B	H	C	G	D	G	76	H
4.2G Mini-Assessment 2	C	J	C	G	C	G	B	G	A	G
4.2G Mini-Assessment 3	D	J	C	G	D	F	D	H	C	F
4.2H Mini-Assessment 1	C	G	B	J	D	J	D	F	C	F
4.2H Mini-Assessment 2	D	J	D	G	C	F	D	F	C	J
4.3A Mini-Assessment 1	C	J	B	H	D	F	B	H	A	G
4.3A Mini-Assessment 2	D	J	A	H	C	J	D	H	C	G
4.3B Mini-Assessment 1	C	J	C	G	A	H	C	J	C	J
4.3B Mini-Assessment 2	B	H	B	F	B	J	B	J	A	H
4.3C Mini-Assessment 1	C	G	C	J	C	J	D	G	C	J
4.3C Mini-Assessment 2	B	H	B	G	C	14	B	F	D	F
4.3D Mini-Assessment 1	D	J	C	J	A	H	B	J	C	H
4.3D Mini-Assessment 2	D	J	A	J	A	H	D	J	A	J
4.3D Mini-Assessment 3	B	G	B	J	A	J	C	J	B	H
4.3E Mini-Assessment 1	D	F	D	G	C	G	C	J	A	F
4.3E Mini-Assessment 2	D	G	D	J	C	F	C	F	C	G
4.3E Mini-Assessment 3	D	H	C	18	B	J	D	H	A	G
4.3F Mini-Assessment 1	D	F	B	H	A	F	D	H	B	H
4.3F Mini-Assessment 2	A	H	D	J	A	F	A	H	C	H
4.3G Mini-Assessment 1	C	H	D	H	D	H	C	G	C	H
4.3G Mini-Assessment 2	D	H	A	J	C	J	B	J	A	F

TEKS CATEGORY 2 - NUMBER AND OPERATIONS

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
4.4A Mini-Assessment 1	C	J	407	3.70	B	H	D	J	D	J
4.4A Mini-Assessment 2	C	G	C	F	658	F	C	7.2	B	J
4.4A Mini-Assessment 3	C	H	A	F	C	F	7.94	J	D	13.51
4.4B Mini-Assessment 1	A	H	B	H	C	H	A	H	A	100
4.4B Mini-Assessment 2	A	G	B	G	C	F	D	H	C	J
4.4C Mini-Assessment 1	A	H	A	J	A	192	D	F	C	G
4.4C Mini-Assessment 2	A	J	B	F	225	G	D	G	A	G
4.4D Mini-Assessment 1	C	F	C	F	B	J	C	H	A	F
4.4D Mini-Assessment 2	C	F	D	F	D	G	B	H	C	J
4.4E Mini-Assessment 1	C	H	C	F	D	J	B	F	D	F
4.4E Mini-Assessment 2	B	H	B	H	C	J	D	G	A	380
4.4F Mini-Assessment 1	B	H	A	J	B	H	B	H	D	G
4.4F Mini-Assessment 2	C	F	B	F	A	G	A	H	B	G
4.4G Mini-Assessment 1	D	H	A	H	A	H	B	G	D	H
4.4G Mini-Assessment 2	B	G	B	F	C	G	B	J	C	H
4.4H Mini-Assessment 1	496	F	D	H	A	J	C	J	D	F
4.4H Mini-Assessment 2	D	J	A	J	B	G	460	J	B	F
4.4H Mini-Assessment 3	D	G	B	H	A	H	84	H	C	H

TEKS CATEGORY 3 - ALGEBRAIC REASONING

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
4.5A Mini-Assessment 1	B	G	C	J	244	J	D	J	C	18
4.5A Mini-Assessment 2	B	H	D	F	128	G	C	G	C	G
4.5A Mini-Assessment 3	D	F	D	H	D	F	C	G	B	F
4.5B Mini-Assessment 1	A	F	D	J	B	J	A	H	D	F
4.5B Mini-Assessment 2	C	J	D	H	D	J	B	H	C	H
4.5B Mini-Assessment 3	C	H	D	G	B	H	A	H	D	H
4.5D Mini-Assessment 1	B	J	D	50	D	G	B	H	D	H
4.5D Mini-Assessment 2	C	J	C	110	C	J	20	H	B	J
4.5D Mini-Assessment 3	24	H	A	F	C	J	D	F	A	J

TEKS CATEGORY 4 - GEOMETRY AND MEASUREMENT										
TEKS Assessed Mini-Assessment Number	**Question Number and Answer**									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
4.6A Mini-Assessment 1	D	J	C	H	C	H	D	H	A	F
4.6A Mini-Assessment 2	A	F	D	J	D	J	C	J	C	F
4.6B Mini-Assessment 1	C	J	C	H	D	H	D	H	C	H
4.6B Mini-Assessment 2	B	J	C	G	B	H	D	H	A	J
4.6C Mini-Assessment 1	B	H	B	H	D	J	A	H	D	H
4.6C Mini-Assessment 2	C	H	C	H	A	F	D	F	A	H
4.6D Mini-Assessment 1	C	J	C	J	C	G	B	J	D	F
4.6D Mini-Assessment 2	B	H	A	G	B	F	D	G	B	H
4.6D Mini-Assessment 3	A	G	D	J	B	J	C	H	A	H
4.7C Mini-Assessment 1	B	J	B	H	A	A	B	A	A	G
4.7C Mini-Assessment 2	C	G	A	F	C	F	B	G	A	H
4.7C Mini-Assessment 3	D	H	B	J	C	H	C	J	B	G
4.7D Mini-Assessment 1	D	G	C	H	D	G	C	G	D	J
4.7D Mini-Assessment 2	B	H	D	F	B	F	D	J	B	H
4.7E Mini-Assessment 1	A	H	B	G	C	J	D	H	C	J
4.7E Mini-Assessment 2	D	H	C	J	A	F	C	J	B	F
4.8A Mini-Assessment 1	A	F	B	G	C	G	C	H	D	J
4.8A Mini-Assessment 2	C	F	A	J	C	J	C	H	D	G
4.8B Mini-Assessment 1	D	H	B	J	A	H	C	H	A	J
4.8B Mini-Assessment 2	B	F	D	G	C	G	C	H	D	F
4.8C Mini-Assessment 1	C	H	A	F	D	H	D	J	B	G
4.8C Mini-Assessment 2	B	J	A	F	D	G	B	F	B	G
4.8C Mini-Assessment 3	D	G	A	F	B	F	C	J	A	F

TEKS CATEGORY 5 - DATA ANALYSIS										
TEKS Assessed Mini-Assessment Number	**Question Number and Answer**									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
4.9A Mini-Assessment 1	D	G	B	H	D	J	D	J	D	J
4.9A Mini-Assessment 2	A	J	B	J	A	F	D	G	B	F
4.9A Mini-Assessment 3	D	F	B	J	D	G	B	H	B	F
4.9B Mini-Assessment 1	C	G	D	F	C	G	C	H	A	G
4.9B Mini-Assessment 2	C	F	D	J	A	F	B	F	D	G

TEKS CATEGORY 6 - PERSONAL FINANCIAL LITERACY										
TEKS Assessed Mini-Assessment Number	**Question Number and Answer**									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
4.10A Mini-Assessment 1	D	J	C	G	D	G	B	H	B	H
4.10A Mini-Assessment 2	A	J	C	J	A	F	D	H	B	J
4.10B Mini-Assessment 1	B	H	B	G	B	F	C	H	B	H
4.10B Mini-Assessment 2	C	H	B	J	C	F	C	H	D	54
4.10E Mini-Assessment 1	B	J	C	F	C	J	C	F	D	H
4.10E Mini-Assessment 2	A	H	B	H	B	G	D	G	A	F

TEKSING TOWARD STAAR

MATHEMATICS®

GRADE 4

Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 1

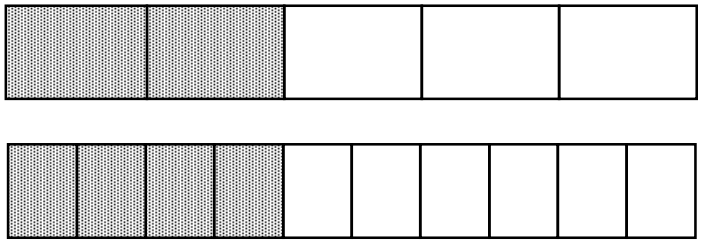
Process Standards

NAME_____ DATE_____ SCORE ___/10

4.1A Mini-Assessment 1

4.3C

1. Each model shown below is shaded to represent a fraction.



Which of the following does **NOT** explain why the fractions represented by the models are equivalent?

A $\frac{2}{5} = \frac{4}{10}$ because $\frac{2}{5} \times \frac{2}{2} = \frac{4}{10}$.

B $\frac{2}{5} = \frac{4}{10}$ because both fractions are less than 1.

C $\frac{2}{5} = \frac{4}{10}$ because you need 2 tenth-size parts to make 1 fifth-size part, so you need 4 tenth-size parts to make 2 fifth-size parts.

D $\frac{2}{5} = \frac{4}{10}$ because $\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$.

4.3D

2. Nancy made a design with colored tiles. The design was more than $\frac{2}{3}$ green. Which of the following is true?

F $\frac{4}{6} > \frac{2}{3}$

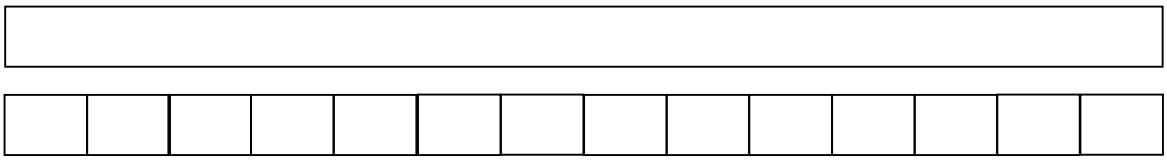
G $\frac{2}{6} > \frac{2}{3}$

H $\frac{4}{5} > \frac{2}{3}$

J $\frac{1}{2} > \frac{2}{3}$

4.3E

3. At the pizza parlor, each extra large pizza was cut into 16 equal slices. Kelly ate 2 slices, Lloyd ate 4 slices, Alfredo ate 3 slices, and Lola ate 1 slice.



Which expression can be used to find the amount of pizza left after everyone finished eating?

A $16 - 2 + 4 + 3 + 1$

B $\frac{2}{16} \times \frac{4}{16} \times \frac{3}{16} \times \frac{1}{16}$

C $2 + 4 + 3 + 1$

D $\frac{16}{16} - \left(\frac{2}{16} + \frac{4}{16} + \frac{3}{16} + \frac{1}{16}\right)$

4.3F

4. Gina subtracted $\frac{6}{8}$ from 1 and found a difference of $\frac{2}{8}$. Which statement best describes the difference of $\frac{6}{8}$ from 1 is $\frac{2}{8}$?

F The difference of $\frac{2}{8}$ is not reasonable because $1 - \frac{3}{4} = \frac{1}{4}$.

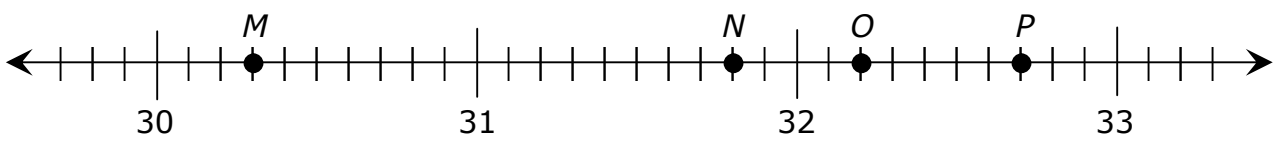
G The difference of $\frac{2}{8}$ is reasonable because $\frac{3}{4} - \frac{1}{4} = \frac{1}{2}$.

H The difference of $\frac{2}{8}$ is reasonable because $1 - \frac{3}{4} = \frac{1}{4}$.

J The difference of $\frac{2}{8}$ is not reasonable because $\frac{3}{4} - \frac{1}{4} = \frac{1}{2}$.

4.3G

5. Which point best represents 32.2 on the number line?



A Point *M*

B Point *N*

C Point *O*

D Point *P*

4.4A

6. Kristi bought 2.07 pounds of cashews. She ate 0.25 pound and her brother ate 0.38 pound. How much of the cashews were left?

F 1.44 pounds

G 0.63 pound

H 1.82 pounds

J 2.7 pounds

4.4B

7. Yasif knows that 34 × 1 = 34. What is the product 34 × 100?

A 340

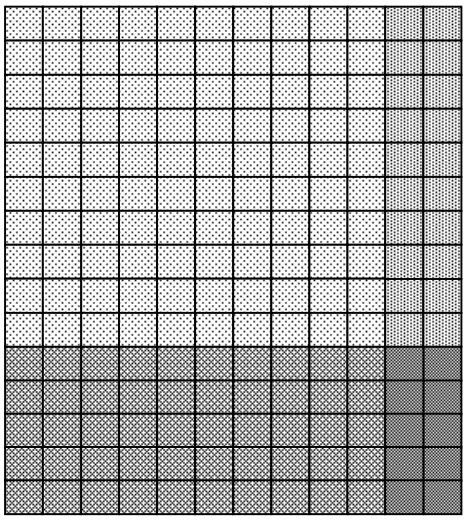
B 3,400

C 304

D 3,040

4.4C

8. The model shown below represents the number of tamales Delores is making to sell at her restaurant. She is making 15 pans of tamales with a dozen tamales in each pan.



Based on the model, which of the following represents the total number of tamales she is making?

F $(10 \times 10) + (5 \times 10) + (10 \times 2) + (5 \times 5) = 100 + 50 + 20 + 25 = 195$

G $(10 \times 10) + (5 \times 10) + (10 \times 2) + (5 \times 2) = 100 + 50 + 20 + 10 = 180$

H $(10 \times 10) + (5 \times 12) + (10 \times 2) + (5 \times 2) = 100 + 60 + 20 + 10 = 190$

J $(10 \times 15) + (5 \times 10) + (10 \times 2) + (5 \times 2) = 150 + 50 + 20 + 10 = 230$

4.4D

9. A car wash charges $26 for a deluxe car wash. If they finish 47 deluxe car washes today, how much money will they collect, not including tips?

A $122

B $1,232

C $1,222

D $1,122

4.4E

10. The DeBorde family drove 780 miles on their vacation. They drove the same number of miles for 6 days. Which of the following does **NOT** represent the number of miles they drove each day?

F $(600 \div 6) + (120 \div 6) + (60 \div 6)$

G $(600 \div 6) + (60 \div 6) + (60 \div 6) + (60 \div 6)$

H $(600 \div 6) + (180 \div 6)$

J $(300 \div 6) + (300 \div 6) + (120 \div 6)$

NAME_____ DATE_____ SCORE ___/10

4.1A Mini-Assessment 2

4.4F

1. A company made 1,215 yards of electrical wire. They want to wrap the same length of wire on each of 3 spools. Which of the following can be used to find the length of wire on each spool?

   A $(1{,}200 \div 3) + (5 \div 3)$

   B $(900 \div 3) + (300 \div 3) + (15 \div 3)$

   C $(1{,}200 \div 3) + (150 \div 3)$

   D Not here

4.4G

2. A football lineman weighs 281 pounds. A running back weighs 227 pounds. What is a good estimate for their combined weights?

   F 300 lbs

   G 400 lbs

   H 500 lbs

   J 600 lbs

4.4H

3. Ms. Miller wants to display student artwork on the hall bulletin board. Each picture takes 4 pushpins to put up on the board. Ms. Miller has a box of 72 push pins. How many pieces of artwork can she display using all the pushpins in the box?

   A 12

   B 13

   C 16

   D 18

4.5A

4. Jon has 2,796 pennies. His brother Jason has twice as many pennies as Jon. How many pennies will they have if they combine their pennies?

   F 4,194

   G 6,990

   H 8,388

   J 5,592

4.5B

5. A food pyramid shows that a child should drink 3 cups of milk each day. The input/output table represents the relationship between the number of *d* days and the number of *c* cups of milk recommended for a child. The rule for the relationship is $d \times 3$.

Input, Position	Output, Value
d	*c*
2	6
3	9
4	12
5	15

How many cups of milk are recommended for a child to drink in 1 week?

A 3

B 18

C 7

D 21

4.5D

6. Mrs. Meyer has a rectangular tulip garden that is 3 feet wide and 7 feet long. If she makes the garden 5 feet wide and keeps the same length, what will be the new perimeter of her tulip garden?

F 25 ft

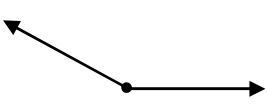
G 24 ft

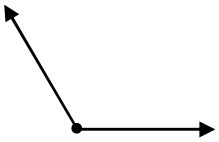
H 16 ft

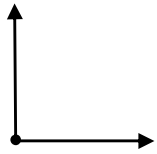
J 12 ft

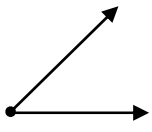
4.6A

7. The two main roads in a small Texas town meet at an acute angle. Which shows an acute angle?

A 

C 

B 

D 

4.6B

8. Which statement about the numbers below is true?

9 1 4 5

F The numbers do not have any lines of symmetry.

G The numbers all have at least one line of symmetry.

H The numbers all have exactly one line of symmetry.

J The numbers all have more than one line of symmetry.

4.6C

9. Which statement is true for every obtuse triangle?

A Exactly one of the angles in an obtuse triangle measures greater than 90°.

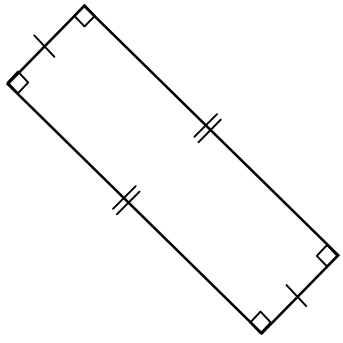
B All of the angles in an obtuse triangle measure greater than 90°.

C One of the angles in an obtuse triangle measures exactly 90°.

D All of the angles in an obtuse triangle measure less than 90°.

4.6D

10. Selena wants to classify the figure below in as many ways as possible.



Which classification of the figure is correct?

F The figure is a square, a parallelogram, a quadrilateral, and a rectangle.

G The figure is a quadrilateral, a rectangle, and a parallelogram.

H The figure is a rhombus, a rectangle, and a quadrilateral.

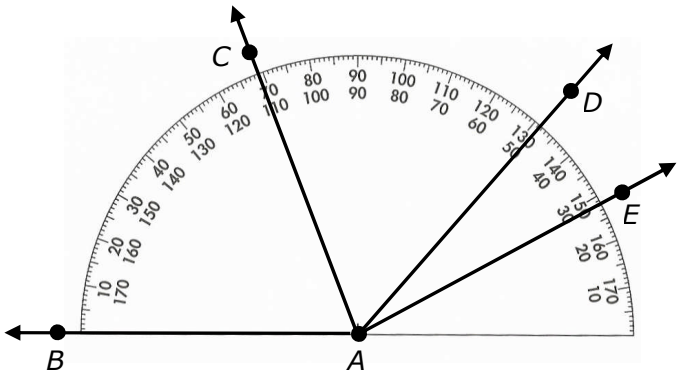
J The figure is a trapezoid, a rectangle, and a quadrilateral.

NAME_____ DATE_____ SCORE ___/10

4.1A Mini-Assessment 3

4.7C

1. What is the measure of $\angle EAD$ to the nearest degree?



A m$\angle EAD$ = 20°

B m$\angle EAD$ = 30°

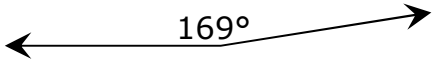
C m$\angle EAD$ = 50°

D m$\angle EAD$ = 130°

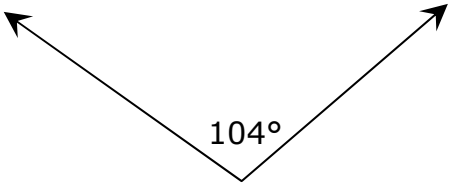
4.7D

2. Doreen drew an acute angle. Which of the following could be the angle Doreen drew?

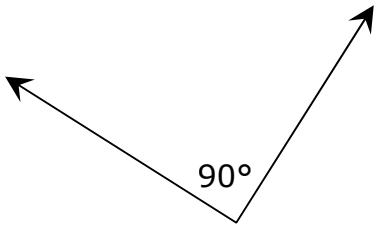
F



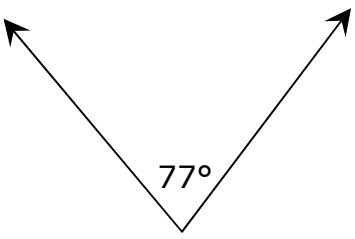
H



G

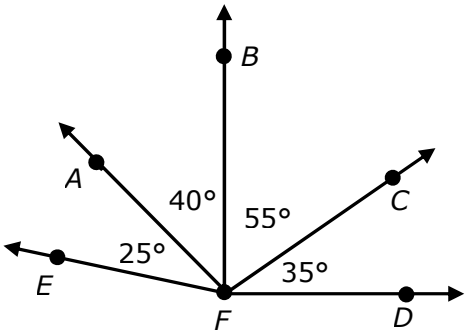


J



4.7E

3. Use the diagram below.



Which angle does **NOT** have a measure less than 90°?

A ∠*EFA*

B ∠*CFB*

C ∠*AFD*

D ∠*CFD*

4.8A

4. What is the most reasonable mass for a bag of 10 to 12 apples?

F 20 grams

G 2 grams

H 20 kilograms

J 2 kilograms

4.8B

5. The table below shows the relationship between grams and kilograms.

Number of Grams	Number of Kilograms
3,000	3
4,000	4
6,000	6
7,000	7

Based on the information in the table, what is the number of grams in 9 kilograms?

A 90 g

B 900 g

C 9,000 g

D 90,000 g

4.8C

6. Lisa planted flowers in a garden 5 yards long. Then she planted flowers in another garden 7 yards long. What is the total length in feet of the gardens Lisa planted?

   F 12 ft

   G 144 ft

   H 36 ft

   J Not here

4.9A

7. Mr. Kendrick recorded the math test scores for his fourth grade class, then he made the stem-and-leaf plot shown below.

Class Math Test Scores

Stem	Leaves
7	4 6 8 8
8	7 7 7 9
9	0 1 1 4 6 8 9
Key: 7	4 represents a score of 74

What was the score for exactly 3 students in the class?

A 78

B 91

C 77

D 87

4.9B

8. Marissa recorded the amount of time the tennis players on her team practice their serves each day.

Time Spent Practicing Tennis Serves	
Hour	Frequency
0	5
$\frac{1}{4}$	2
$\frac{1}{2}$	3
$\frac{3}{4}$	5
1	4

How many tennis players on Marissa's team practice more than $\frac{1}{4}$ hour, but less than one full hour each day?

F 14

G 10

H 15

J 8

4.10A

9. Mariah usually pays $15 for snacks at the movie each month. Which of these describes the amount she pays for snacks at the movie?

A A fixed expense

B A periodic expense

C A savings deposit

D A variable expense

4.10B

10. Cassandra started a business buying and selling used books. In February she earned $3,934 and spent $2,053. What is her profit for the month of February?

F $1,921

G $1,817

H $1,881

J $5,987

TEKSING TOWARD STAAR

MATHEMATICS®

GRADE 4

Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 2

Number and Operations

NAME_____ DATE_____ SCORE ___/10

4.2C Mini-Assessment 1

1. The chart shows the number of students enrolled in Grand City ISD in grades 1 through 4.

Student Enrollment

Grade	Number of Students
1	3,425
2	3,092
3	2,809
4	2,978

Which is the correct order of the numbers of students from greatest to least?

A 3,425 > 3,092 > 2,809 > 2,978

B 3,092 < 3,425 > 2,809 < 2,978

C 3,425 > 3,092 > 2,978 > 2,809

D 2,809 > 3,092 > 2,978 > 3,425

---

2. The chart shows the number of flowers used on four floats in the Holiday Parade.

Flowers for Floats

Float Number	Number of Flowers
1	432,054
2	390,690
3	404,007
4	307,125

Which is the correct order of the numbers of flowers on the floats from least to greatest?

F 307,125 < 390,690 < 404,007 < 432,054

G 432,054 > 404,007 > 390,690 > 307,125

H 404,007 < 432,054 > 307,125 < 390,690

J 390,690 < 432,054 > 307,125 < 404,007

---

3. There were 44,867 visitors at an amusement park in June, 48,241 visitors in July, and 45,043 visitors in August. Which shows the numbers of visitors during these three months ordered from greatest to least?

A 48,241; 45,043; 44,867

B 45,043; 44,867; 48,241

C 45,043; 48,241; 44,867

D 48,241; 44,867; 45,043

4. Venus has a surface area of 177,628,840 square miles. Earth has a surface area of 197,280,733 square miles. Which represents a correct comparison?

   F 177,628,840 > 197,280,733

   G 197,280,733 > 177,628,840

   H 177,628,840 = 197,280,733

   J 197,280,733 < 177,628,840

---

5. The number of gumballs in a gumball machine is less than 3,375 and greater than 2,650. How many gumballs could be in the machine?

   A 3,650

   B 2,375

   C 3,150

   D 2,500

---

6. The number of third graders at four elementary schools in Grand City is shown on the chart.

Grand City Elementary Schools

School Name	Number of Third Graders
Houston	84
Garcia	121
Milam	96
Crockett	107

   Which of the following is a correct order from greatest to least of the number of third graders at the four schools?

   F 84 > 121< 96 < 107

   G 107 > 96 > 84 > 121

   H 84 < 96 < 107 < 121

   J 121 > 107 > 96 < 84

---

7. Third grade students collected pennies during the school year to try to represent one million. Jonah collected 5,138 pennies, Mitzi collected 5,375, and Brandon collected 5,567 pennies. Which shows the numbers of pennies in order from least to greatest?

   A 5,567; 5,138; 5,375

   B 5,375; 5,138; 5,567

   C 5,567; 5,375; 5,138

   D 5,138; 5,375; 5,567

8. The chart shows the total number of season points scored by four little league football teams.

Points Scored In a Season

Team	Points Scored
Tigers	237
Cowboys	173
Rockets	279
Giants	225

Which of the following is **NOT** a true comparison of the total number of points scored by the four teams?

F 279 > 173 < 237 > 225

G 173 < 225 < 237 < 279

H 225 > 237 > 173 < 279

J 279 > 237 > 225 > 173

---

9. A sports stadium in Houston, Texas can hold 54,816 people for baseball games, 62,439 people for football games, and 67,925 people for wrestling events. Which shows these numbers in order from greatest to least?

A 67,925; 62,439; 54,816

B 62,439; 54,816; 67,925

C 54,816; 67,925; 62,439

D 54,816; 62,439; 67,925

---

10. Which comparison symbol should be used to make this number sentence true?

9,582,019 □ 9,582,020

F <

G =

H >

J Not here

NAME_____ DATE_____ SCORE ___/10

4.2C Mini-Assessment 2

1. Which of the following is true?

   A 1,285 > 1,342

   B 1,432 < 1,429

   C 2,347 > 2,339

   D 2,673 < 2,669

---

2. Which of the following is true?

   F 1,185,389 < 1,185,394

   G 1,185,404 < 1,185,394

   H 1,215,394 < 1,185,394

   J 1,285,394 < 1,185,394

---

3. Leslie gathered the information shown below about the population in four small cities.

Small Cities

City	Population
Lincoln	753
Kennedy	492
Travis	1,066
Leeland	954

Which of the following is a true comparison of the population of the four cities?

A 753 < 954 < 1,066 < 492

B 954 > 753 > 492 > 1,066

C 492 < 753 > 1,066 < 954

D 1,066 > 492 < 753 < 954

---

4. Which of the following is true?

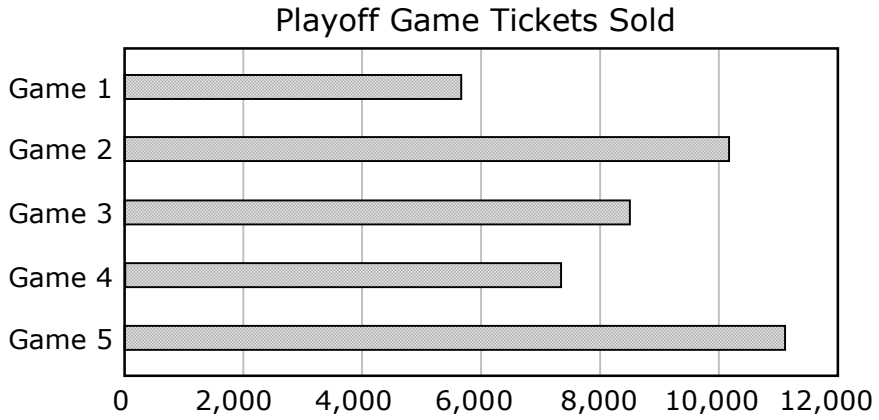
   F 1,797 < 1,779

   G 1,790 < 1,789

   H 2,171 > 2,061

   J 2,187 < 2,179

5. The graph shows the number of tickets sold for each of 5 state playoff football games.



Which shows the games ordered from least to greatest number of tickets sold?

A Game 5, Game 2, Game 3, Game 4, Game 1

B Game 4, Game 3, Game 2, Game 5, Game 1

C Game 2, Game 4, Game 3, Game 5, Game 1

D Game 1, Game 4, Game 3, Game 2, Game 5

---

6. The table below shows the area, in square miles, of 4 ranches.

Area of Four Ranches	
Ranch	Area (in square miles)
K & L	19,850
Anderson	56,900
WB 13	82,099
Bar X	58,700
Lazy H	?

The Lazy H Ranch has an area less than Bar X Ranch and an area greater than K & L Ranch. Which could be the area of Lazy H Ranch?

F 78,550 square miles

G 58,700 square miles

H 29,850 square miles

J 19,850 square miles

7. Which of the following shows the numbers in order from greatest to least?

   A 8,603,704 > 8,036,704 > 8,063,704 > 8,063,074

   B 8,063,074 < 8,063,704 > 8,036,704 < 8,603,704

   C 8,603,704 > 8,063,704 > 8,063,074 > 8,036,704

   D 8,036,704 < 8,603,704 > 8,063,704 > 8,063,074

---

8. The chart shows the number of miles that four third graders traveled with their families over the holidays.

Holiday Travels

Student	Miles Traveled
Marvin	2,208
Cindy	1,028
Ramos	3,802
Shellett	2,082

   Which represents miles traveled that are greater than the miles Cindy traveled, and less than the miles Marvin traveled?

   F 1,028 < 2,082 < 2,208

   G 3,082 > 1,028 > 2,082

   H 1,082 < 2,208 < 3,082

   J 2,208 > 3,082 < 2,082

---

9. The state of Texas registered 8,331,127 cars and 8,765,686 trucks during the year. Which shows a correct comparison of these numbers?

   A 8,331,127 > 8,765,686

   B 8,765,686 > 8,331,127

   C 8,765,686 < 8,331,127

   D 8,331,127 = 8,765,686

10. The chart shows the number of visitors in classrooms in Grand School District during the first four days of Texas Public Schools Week.

Public Schools Week Visitors	
Day	Number of Visitors
Monday	2,314
Tuesday	1,708
Wednesday	2,081
Thursday	1,867

Which of the following is a correct order of the number of visitors from least to greatest during these days?

F 1,708 < 2,314 > 1,867 > 2,081

G 2,081 < 2,314 < 1,708 < 1,867

H 1,867 > 1,708 < 2,314 < 2,081

J 1,708 < 1,867 < 2,081 > 2,314

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Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 3

Algebraic Reasoning

NAME_____ DATE_____ SCORE ___/10

4.5A Mini-Assessment 1

1. A store sold 275 DVDs of a new movie during the first week it was released. During the second week they sold 295 DVDs and they sold additional DVDs during the third week. After the first three weeks the store had sold 984 DVDs. The store manager added 275 and 295 to find that 570 DVDs were sold during the first and second week. Which equation should he use to find n, the number of DVDs sold during the third week?

   A He should use the equation $570 + 275 = n$ because 275 DVDs were sold the first week.

   B He should use the equation $984 - 570 = n$ because 570 DVDs were sold in two weeks.

   C He should use the equation $984 + 570 = n$ because 984 DVDs were sold in 3 weeks.

   D He should use the equation $984 - 295 = n$ because 295 DVDs were sold the second week.

---

2. Maria bought 2 bottles of tomato juice. Each bottle holds 48 ounces of juice. She used these steps to find how many 8-ounce glasses of juice she can pour from the 2 bottles.

   - Draw a strip diagram to represent the number of ounces of juice in the 2 bottles.
   - Write and solve an equation to find the total number of ounces of juice in the 2 bottles.
   - Draw a strip diagram to represent the number of 8-ounce glasses of juice that can be poured from the 2 bottles.

   What should Maria do next to find how many 8-ounce glasses of juice that can be poured from the 2 bottles?

   F Draw another strip diagram to represent the number of ounces of juice in the 2 bottles.

   G Write and solve an equation to find how many 8-ounce glasses can be poured from the 2 bottles.

   H Find the sum of 48 and 48.

   J Not here

---

3. Mrs. Granger is planning a family reunion. She needs to know how many packages of 8 hotdog buns she needs to buy for 76 people if each person eats 2 hot dogs. She used the equation shown below to represent the number of buns she needs.

   $$76 \times 2 = 152$$

   If p = number of packages, which equation can Mrs. Granger use to find the number of packages of buns she needs to purchase?

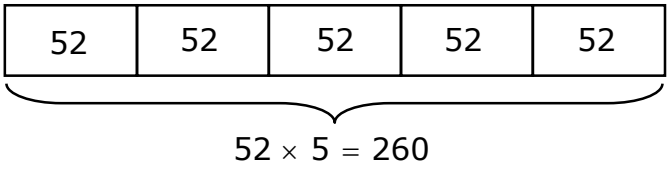
   A $152 + 8 = p$

   B $152 - 2 = p$

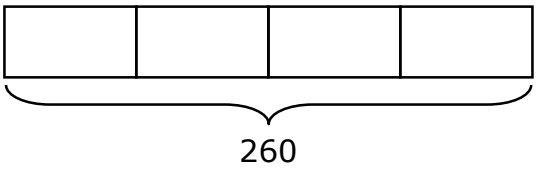
   C $152 \div 8 = p$

   D $152 \times 2 = p$

4. Wendi has 5 bags of marbles with 52 marbles in each bag. She needs to divide the marbles equally among 4 sets for a game. She drew the strip diagram shown below to represent the total number of marbles in the bags.



Then Wendi drew the strip diagram below to find how many marbles will go into each of the 4 sets for the game.



Which equation should Wendi use to represent the number of marbles, m, that will go into each of the 4 sets for the game?

F $260 \times 4 = m$

G $260 + 4 = m$

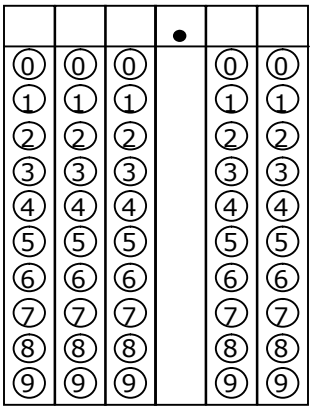
H $260 - 4 = m$

J $260 \div 4 = m$

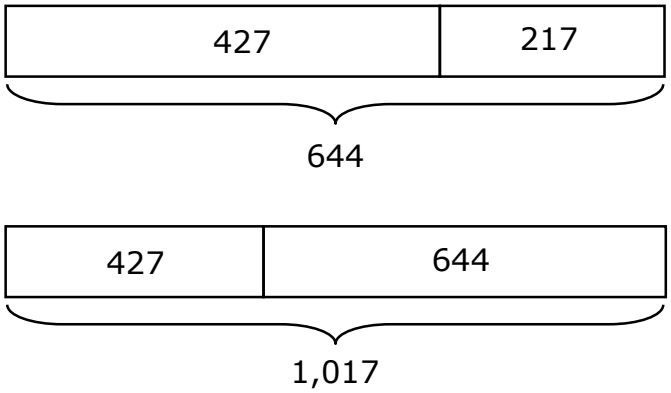
---

5. Camden had a collection of 152 sports cards, then he bought 27 more cards online. Later, his cousin gave him 65 new cards. How many sports cards does Camden have now?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.



6. Rowena has 427 pennies in her coin bank. Larry has 217 more pennies in his coin bank than Rowena has. The strip diagrams show a way to find the number of pennies they have together.



What does 644 in the strip diagram represent?

F The number of pennies they have together

G The number of pennies Rowena has

H How many more pennies Larry has than Rowena has

J The number of pennies Larry has

---

7. Leah has 330 blue beads, 474 green beads, and 596 red beads. She has decided to make necklaces that have exactly 100 beads in any color combination. How many complete necklaces can she make?

A 13

B 15

C 12

D 14

---

8. Stacey's family is moving from Seattle, Washington to Houston, Texas. The distance from Seattle to Houston is 2,430 miles. They have decided to drive 220 miles before lunch and 185 miles after lunch during each day of travel. What is the number of days they will they need to travel from Seattle to Houston?

F 3

G 5

H 8

J 6

9. Nervina spent $14 at the comic book store. *Archie* comic books are $2 each, and *Super Girl* comic books are $3 each. Nervina bought 2 *Super Girl* comic books. How many *Archie* comic books did she buy?

   A 3

   B 2

   C 4

   D 7

---

10. Jodie practiced juggling 90 minutes a day for 12 days before a talent contest. Since there are 60 minutes in an hour, how many total hours did she practice during those 12 days?

    F 12

    G 18

    H 15

    J 14

NAME_____ DATE_____ SCORE ___/10

4.5A Mini-Assessment 2

1. During harvest season the Valley Citrus Company picked 14,594 grapefruit. The company shipped 5,691 grapefruit during the first week and 3,224 grapefruit during the second week. The owner needed to know how many grapefruit they have left after the two weeks. He used the equation shown below to represent the number of grapefruit left after the first week.

$$14{,}594 - 5{,}691 = 8{,}903$$

If n = number left, which equation can the owner use to find the number of grapefruit left after two weeks?

A $14{,}596 + 8{,}903 = n$

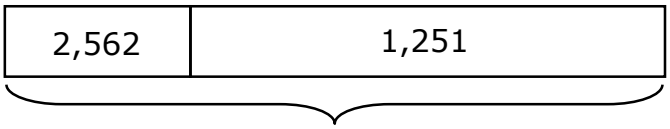
B $8{,}903 - 3{,}224 = n$

C $5{,}691 + 3{,}224 = n$

D $14{,}596 - 3{,}224 = n$

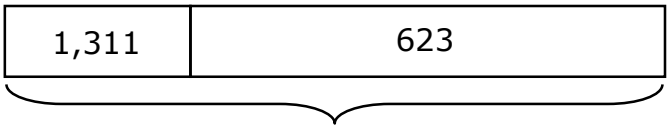
---

2. David and his family are driving 4 days to a national park where they will camp for vacation. The national park is 2,526 miles from their house. The first two days they drove 1,251 miles and the third day they drove 623 miles. David wants to find the number of miles they have left to drive. First, he drew the strip diagram shown below to represent the number of miles left after two days of driving.



$2{,}562 - 1{,}251 = 1{,}311$

Then he drew the strip diagram below to find the number of miles, m, they have left to drive after the third day.



m

Which equation should David use to find the number of miles they have left to drive?

F $2{,}562 - 623 = m$

G $1{,}311 + 623 = m$

H $1{,}311 - 623 = m$

J $1{,}251 + 623 = m$

3. Tyler spent \$405 on a video game player and 3 video games. He spent \$336 on the video game player. Each video game was the same price. Tyler subtracted \$336 from \$405 to find the amount he spent on the video games was \$69. Which equation should Tyler use to find c, the cost of each video game?

   A He should use the equation $69 \times 3 = c$ because he spent \$69 on the 3 video games.

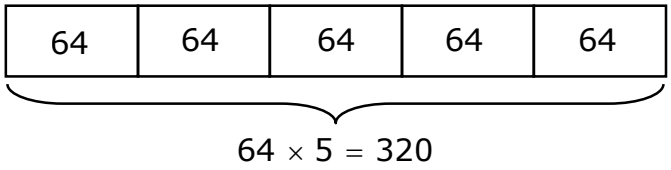
   B He should use the equation $69 + 3 = c$ because he bought 3 video games.

   C He should use the equation $69 - 3 = c$ because he only bought 3 video games.

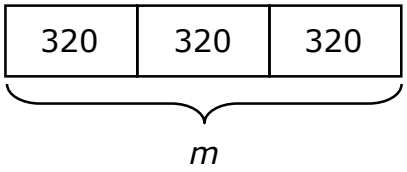
   D He should use the equation $69 \div 3 = c$ because he bought 3 video games for \$69.

---

4. Brandon has 5 computers with 64 gigabytes of hard drive memory on each computer. Brandon needs to add 3 times the total amount of memory he has now. He drew the strip diagram shown below to represent the total amount of hard drive memory he has now.



   Next, Brandon drew the strip diagram below to find how much more memory he needs.



   Which equation should Brandon use to find how much more memory, m, he needs?

   F $320 \times 3 = m$

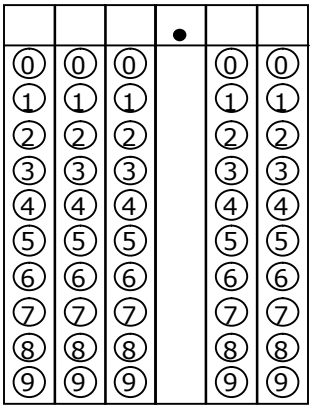
   G $320 + 3 = m$

   H $320 \div 3 = m$

   J $320 - 3 = m$

5. Geraldo bought 8 containers of cranberry juice with 96 ounces in each container. He will pour 6 ounces of juice for each serving at a school party. How many servings of juice can Geraldo pour for the party?

   Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.



---

6. Lilah's favorite basketball team scored 1,097 points in the first ten games of the season. They scored 1,013 points in their next ten games, and then they scored 1,193 points in the ten games after that. How many points did the team score in the thirty games?

   F 3,193

   G 3,303

   H 3,203

   J 3,093

---

7. Brittney has three bank accounts. She has $1,578 in one account and $4,901 in a second account. What is the amount in the third account if she has a total of $10,945 in the three accounts?

   A $17,424

   B $5,466

   C $4,466

   D $6,044

8. Houston Elementary School has 838 students in grades 3 through 5. The school has 242 third grade students and 312 fourth grade students. What is the number of students in the fifth grade?

F 554

G 284

H 264

J 324

---

9. The chefs at a pastry shop baked 28 pies. They cut 12 pies into 8 slices each. They cut the rest of the pies into 6 slices each. How many slices of pie will they package to sell individually?

A 180

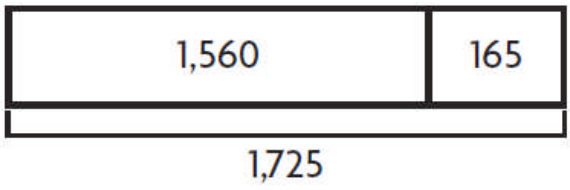
B 224

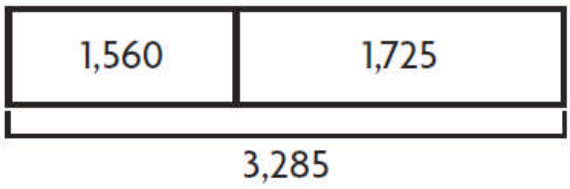
C 192

D 96

---

10. Calista jogged 1,560 meters on Friday. On Saturday, she jogged 165 meters farther than she jogged on Friday. The strip diagrams represent how many meters she jogged on both days.





What does 1,725 in the strip diagram represent?

F How many meters Calista jogged on Friday

G How many meters Calista jogged on Saturday

H How many meters Calista jogged on Friday and Saturday

J How many meters Calista jogs every day of the week

NAME_____ DATE_____ SCORE ___/10

4.5A Mini-Assessment 3

1. Suri scored a total of 19,221 points in three rounds of a video game. She scored 4,591 points in the first round of the game and she scored 8,526 points in the third round. Suri wants to find the number of points she scored in the second round. First, she used the equation shown below to represent the number of points she scored in the first and third rounds combined.

$$4{,}591 + 8{,}526 = 13{,}117$$

If s = second round score, which equation can Suri use to find the number of points she scored in the second round?

A $19{,}221 + 8{,}526 = s$

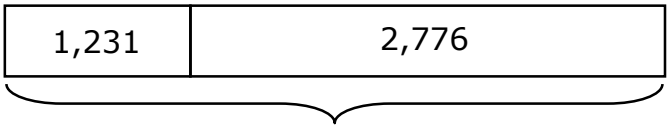
B $19{,}221 - 4{,}591 = s$

C $19{,}221 + 13{,}117 = s$

D $19{,}221 - 13{,}117 = s$

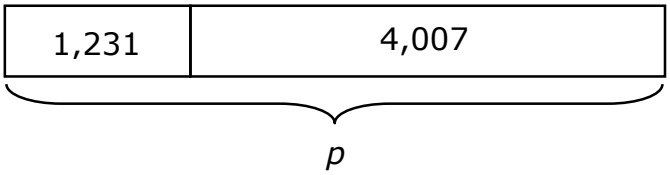
---

2. Marcus and his grandfather collect pennies. Marcus has 1,231 pennies and his grandfather has 2,776 pennies more than Marcus has. Marcus wants to find the number of pennies they have combined. First, he drew the strip diagram shown below to represent the number of pennies his grandfather has.



$1{,}231 + 2{,}776 = 4{,}007$

Then Marcus drew the strip diagram below to find the number of pennies, p, they have combined.



Which equation should Marcus use to represent the number of pennies they have combined?

F $1{,}231 + 4{,}007 = p$

G $4{,}007 - 1{,}231 = p$

H $1{,}231 + 2{,}776 = p$

J $2{,}776 - 1{,}231 = p$

3. Brittney has 2 packages with 36 push pins each. She needs 4 push pins to attach each of her garage sale signs to a wooden stake. She used the equation shown below to represent the total number of push pins she has.

$$36 \times 2 = 72$$

If s = number of signs, which equation can Brittney use to find the number of garage sale signs she can attach to a wooden stake?

A $72 + 4 = s$

B $72 - 4 = s$

C $72 \times 4 = s$

D $72 \div 4 = s$

---

4. Carlos collected 5 bags of shells with 16 shells in each bag. He needs to divide the shells equally to use as a border around 6 mirrors. He used these steps to find how many shells he will use to border each mirror.

- Draw a strip diagram to represent the total number of shells.
- Multiply to find the total number of shells.
- Draw a strip diagram to represent the total number of shells and the 6 mirrors.

What should Carlos do next to find the number of shells he will use to border each mirror?

F He should divide the total number of shells by 5.

G He should multiply the total number of shells by 6.

H He should divide the total number of shells by 6.

J He should multiply the total number of shells by 6.

---

5. An electronics store sold 456 laptops in October and 798 laptops sold in November. By the end of December, a total of 2,197 had been sold during the three months. How many laptops did the store sell in December?

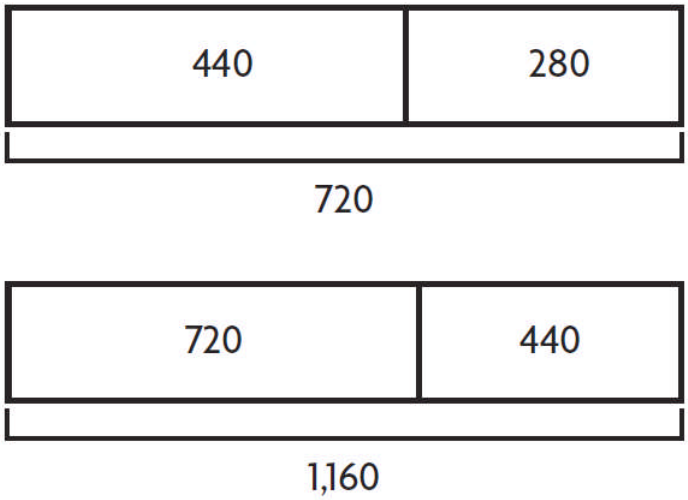
A 1,254

B 342

C 1,399

D 943

6. Zeva has 440 blocks. Serena has 280 more blocks than Ezekiel has. The strip diagrams show how to find how many blocks they have all together.



What does 720 in the strip diagram represent?

F The number of blocks Serena has

G The number of blocks Zeva has

H The number of blocks Zeva and Serena have together

J How many more blocks Serena has than Zeva

---

7. The antique clock in a town square plays "The Yellow Rose of Texas" 2 times every hour, 24 hours each day, 7 days each week. What is the number of times the clock plays the song in 2 weeks?

A 364

B 66

C 672

D 108

---

8. A bakery made 6 batches of 144 oatmeal cookies. The cookies were packaged in boxes of 8 to sell. How many boxes of cookies did the bakery have to sell?

F 192

G 108

H 144

J 126

9. During the first week of a basketball season, there were 8,716 tickets sold at the box office. In the second week, there were 1,316 fewer tickets sold. How many tickets were sold at the box office during the first two weeks of a basketball season?

   A 7,400

   B 16,116

   C 10,032

   D 14,800

---

10. A city library has 10,132 fiction books and 11,768 nonfiction books. A book club donated another 3,729 books to the library. How many books does the library have now?

    F 25,629

    G 29,358

    H 21,900

    J 23,993

TEKSING TOWARD STAAR

MATHEMATICS®

GRADE 4

Mini-Assessments

STAAR Format

TEKS Categories

TEKS CATEGORY 4

Geometry

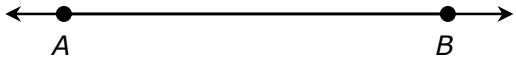
and

Measurement

NAME_____ DATE_____ SCORE ___/10

4.6A Mini-Assessment 1

1. Look at the figure.



Which term best describes the figure?

A Ray *AB*

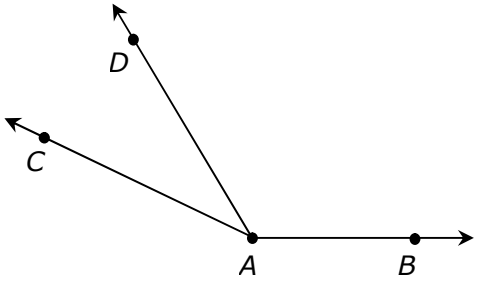
B Line segment *AB*

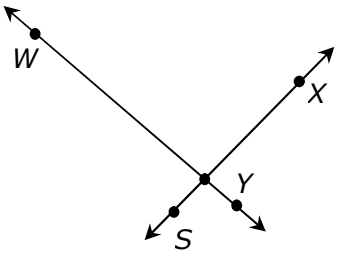
C Point *AB*

D Line *AB*

---

2. Look at the figures.





What is the total number of rays in the figures?

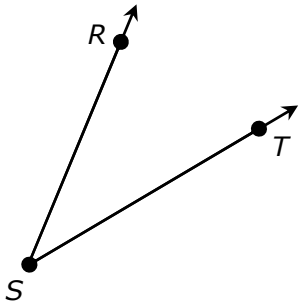
F 2

G 6

H 5

J 7

3. Look at the figure.



Which term best describes the figure?

A Ray *RST*

B Line segment *RST*

C Angle *RST*

D Point *RST*

---

4. Which best describes parallel lines?

F They intersect at one point.

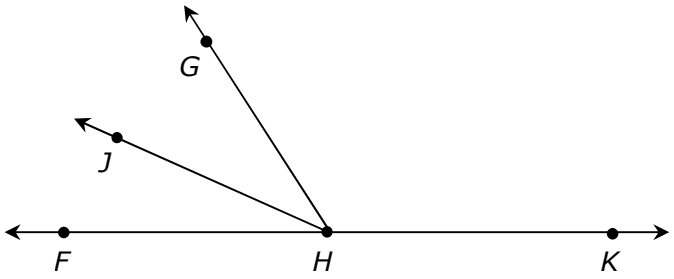
G They form one obtuse angle.

H They never meet.

J They form one acute angle.

---

5. Look at the figure.



Which names an obtuse angle in the figure?

A $\angle JHG$

B $\angle FHJ$

C $\angle GHK$

D $\angle FHK$

6. Which type of angle is greater than a right angle?

F Acute and obtuse only

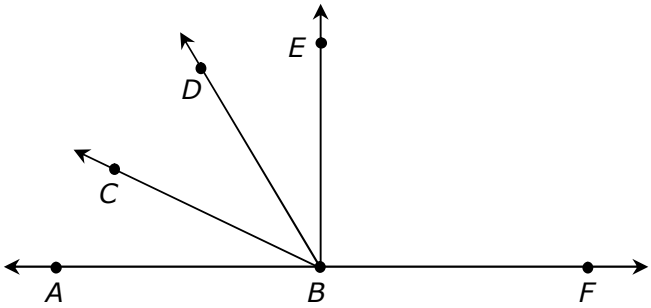
G Straight only

H Obtuse and straight only

J Obtuse only

---

7. Look at the figure.



Which names a straight angle in the figure below?

A $\angle ABC$

B $\angle EBF$

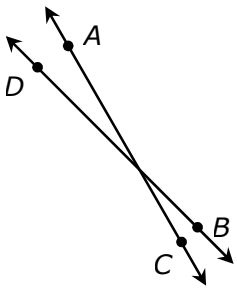
C $\angle CBF$

D $\angle ABF$

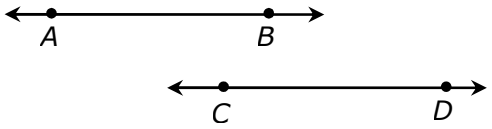
---

8. Which figure appears to show parallel lines?

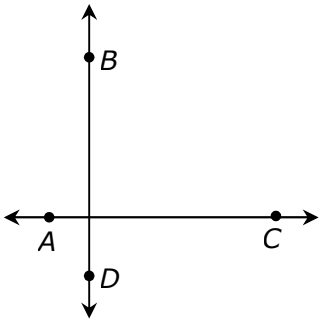
F



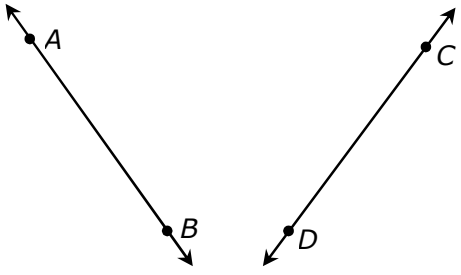
H



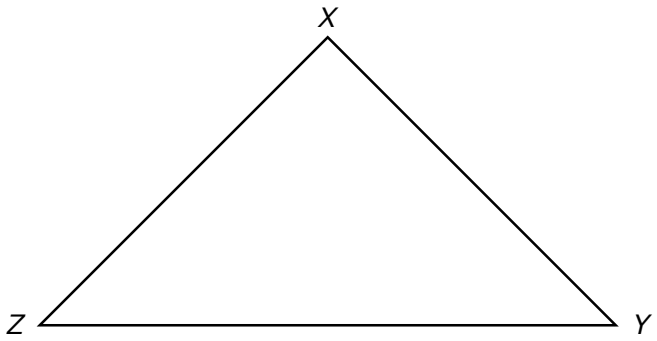
G



J



9. Look at the figure.



What type of angle is $\angle XYZ$ in the figure?

A Acute angle

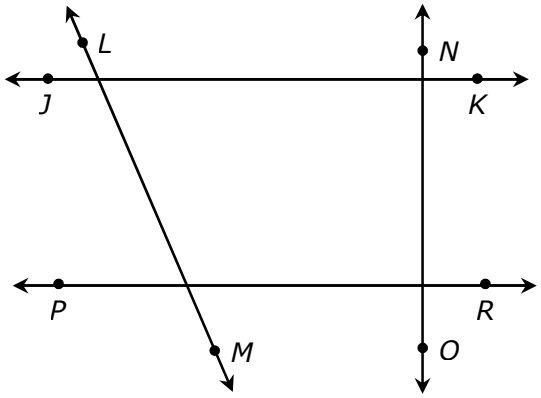
B Straight angle

C Right angle

D Obtuse angle

---

10. Look at the figure.



Which pair of lines appears to be perpendicular?

F $\overleftrightarrow{JK}$ and $\overleftrightarrow{PR}$

G $\overleftrightarrow{LM}$ and $\overleftrightarrow{NO}$

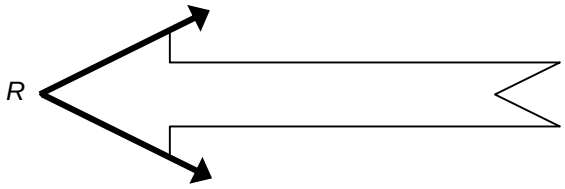
H $\overleftrightarrow{NO}$ and $\overleftrightarrow{JK}$

J $\overleftrightarrow{PR}$ and $\overleftrightarrow{LM}$

NAME_____ DATE_____ SCORE ___/10

4.6A Mini-Assessment 2

1. Look at the angle made by the front of the arrow in the figure shown below.



What type of angle is $\angle R$?

A Acute angle

B Obtuse angle

C Right angle

D Straight angle

---

2. Which best describes perpendicular lines?

F They form four right angles.

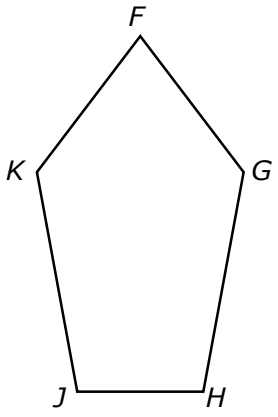
G They form one obtuse angle.

H They never meet.

J They form one acute angle.

---

3. Look at the figure.



Which angle in the figure is **NOT** an obtuse angle?

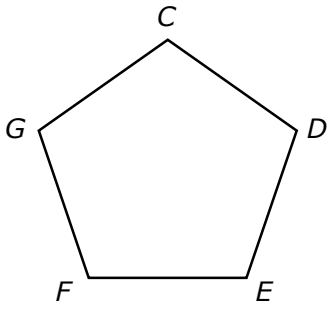
A $\angle JKF$

B $\angle FGH$

C $\angle HJK$

D $\angle KFG$

4. Look at the figure.



What type of angle is $\angle FGC$ in the figure?

F Acute angle

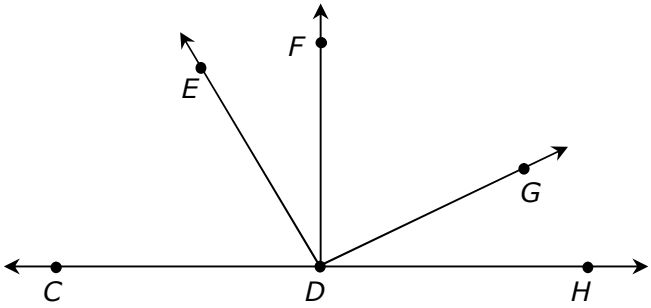
G Straight angle

H Right angle

J Obtuse angle

---

5. Look at the figure.



Which names a right angle in the figure?

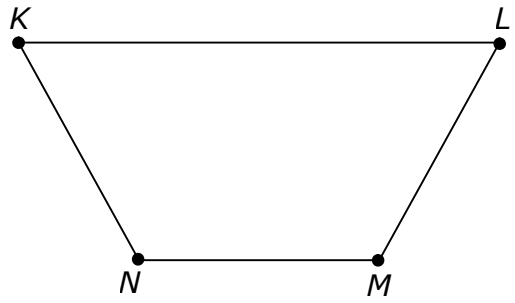
A $\angle CDG$

B $\angle EDF$

C $\angle CDH$

D $\angle FDH$

6. Look at the figure.



Which two line segments in the figure appear to be parallel?

F *ST* and *RV*

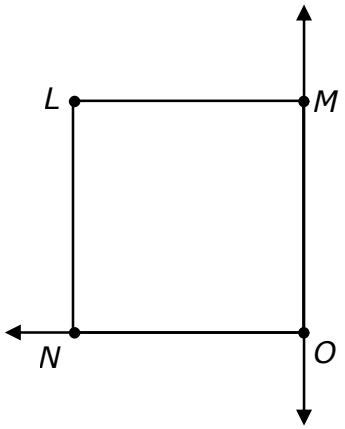
G *KN* and *LM*

H *MN* and *LM*

J *LK* and *MN*

---

7. Look at the figure.



Which is a ray in the figure?

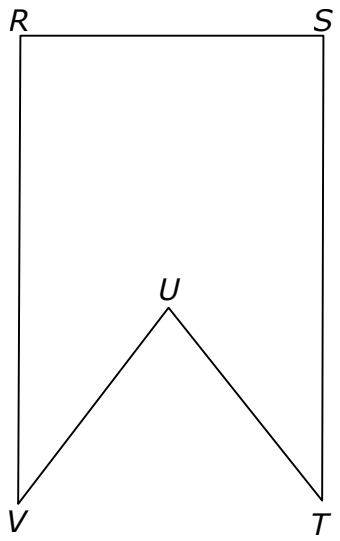
A $\overrightarrow{ML}$

B $\overrightarrow{LN}$

C $\overrightarrow{ON}$

D $\overrightarrow{MN}$

8. Laila designed a banner for the math club. The shape of the banner is shown below.



Which two line segments on the banner appear to be perpendicular to each other?

F *ST* and *RV*

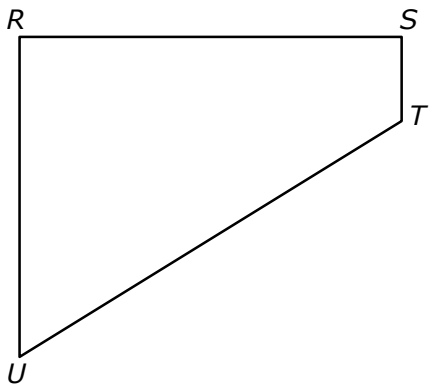
G *TU* and *VU*

H *SR* and *TU*

J *RV* and *SR*

---

9. Look at the figure.



Which names a right angle in the figure?

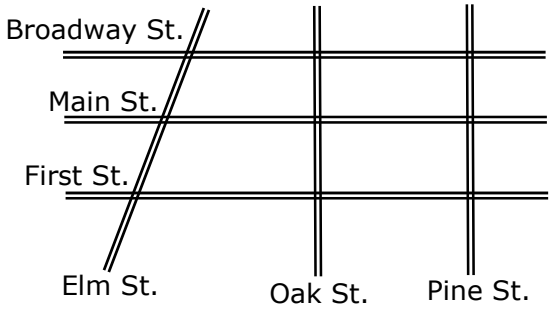
A $\angle STU$

B $\angle TUR$

C $\angle URS$

D Not here

10. Look at the street map of the downtown area in a Texas town.



Which street appears to be perpendicular to Pine Street?

F Main Street

G Oak Street

H Elm Street

J Not here

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MATHEMATICS®

GRADE 4

Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 5

Data Analysis

NAME_____ DATE_____ SCORE ___/10

4.9A Mini-Assessment 1

1. Dawn kept a record of the number of minutes she walked on 16 different days. Her data is shown below.

Number of Minutes Walked			
60	60	90	45
45	60	45	90
30	30	90	90
30	60	45	45

Dawn decided to create a frequency table using her data. What number will Dawn use on a frequency table to represent the number of times she walked 60 minutes?

A 3

B 5

C 2

D 4

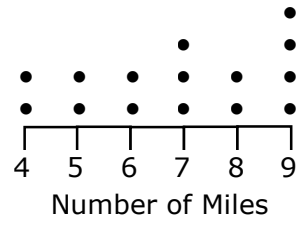
---

2. Sean is training to run at a cross country track meet. He recorded the number of miles he ran on different days.

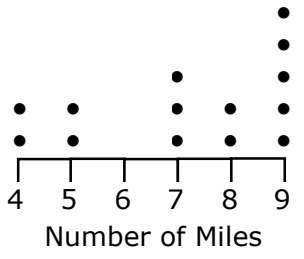
Number of Miles				
4	7	9	8	5
9	9	9	7	9
5	8	4	7	8

Which dot plot represents the data Sean recorded?

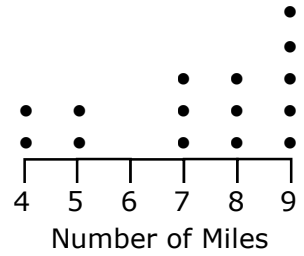
F



H



G



J

3. Keri recorded the number of points for each of the words she created during a word game.

Number of Points							
22	19	27	13	31	15	22	33

Which stem-and-leaf plot represents the points Keri scored?

A

Points Scored

Stem	Leaves
1	3 5
2	2 2 7
3	1 3 9

Key: 1 | 3 represents 13 points

C

Points Scored

Stem	Leaves
1	3 7 9
2	2 2 5
3	1 3

Key: 1 | 3 represents 13 points

B

Points Scored

Stem	Leaves
1	3 5 9
2	2 2 7
3	1 3

Key: 1 | 3 represents 13 points

D

Points Scored

Stem	Leaves
1	3 7 9
2	2 2 5
3	1 3

Key: 1 | 3 represents 13 points

---

4. Students in Juanita's class kept a record of the number of different types of birds each of them saw during recess. The data is shown below.

Number of Birds								
3	5	1	2	1	7	3	5	3

Juanita wants to make a dot plot to represent the data. How many dots will she place above the number 5?

F 3

G 1

H 2

J 5

5. A fourth grade class attended a band concert. After the concert, the band conductor asked each student to name their favorite instrument. He recorded the data using tally marks.

Instrument	Number of Students
Piano	𝍸 |||
Guitar	𝍸 𝍸 |||
Flute	|||
Trumpet	𝍸
Clarinet	𝍸 |
Tuba	||||
Drums	𝍸 𝍸 ||||

Which frequency table represents the number of students that chose each instrument?

A

Instrument	Number of Students
Piano	7
Guitar	12
Flute	4
Trumpet	5
Clarinet	6
Tuba	3
Drums	13

C

Instrument	Number of Students
Piano	8
Guitar	14
Flute	3
Trumpet	5
Clarinet	6
Tuba	5
Drums	14

B

Instrument	Number of Students
Piano	9
Guitar	14
Flute	3
Trumpet	5
Clarinet	6
Tuba	5
Drums	13

D

Instrument	Number of Students
Piano	8
Guitar	13
Flute	3
Trumpet	5
Clarinet	6
Tuba	4
Drums	14

6. The data shown below represents the heights of students in Juan's class.

Height of Students (in inches)				
58	63	55	60	57
62	61	54	48	50
55	60	49	56	52

Juan has decided to create a stem-and-leaf plot to represent the heights. How many leaves will he put in the stem-and-leaf plot?

F 10

G 3

H 12

J 15

---

7. Jeri walks her puppy each day. She recorded the distance they walked in the table below.

Distance Walked (in miles)				
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$

Jeri has decided to create a frequency table to represent the data. What number should she use to represent the number of times they walked $\frac{3}{4}$ mile?

A 2

B 5

C 3

D 4

8. Keith surveyed the students in his class to find the number of siblings each of them has. The data is shown below.

Number of Siblings				
0	2	0	0	1
0	1	1	0	4
4	3	1	2	2
3	1	1	2	2

Keith wants to make a dot plot to represent the data. What data points will be labeled below the number line in the dot plot?

F 1, 2, 3

G 1, 2, 3, 4

H 0, 1, 2

J 0, 1, 2, 3, 4

---

9. The data shown below represents the number of jumping jacks completed by 15 students in one minute. The physical education teacher is making a stem-and-leaf plot to display the data.

Number of Jumping Jacks Completed in 1 Minute				
44	38	39	60	57
44	42	51	52	48
45	50	51	50	55

What stems will the teacher put in the stem-and-leaf plot?

A 0, 3, 4, 5, 9

B 3, 4, 6

C 0, 1, 2, 3, 5, 8, 9

D 3, 4, 5, 6

10. The chart below represents the fraction of a whole watermelon ten different cousins ate at a family reunion.

Fraction of a Whole Pie Eaten				
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$

Sean has decided to make a frequency table to represent the data. What number will he put in the frequency column for $\frac{1}{4}$?

F 5

G 2

H 7

J 3

NAME_____ DATE_____ SCORE ___/10

4.9A Mini-Assessment 2

1. Stella recorded the number of minutes she spent doing homework on different days. The data is in the table below.

Time Spent Doing Homework (in minutes)				
30	15	90	60	30
15	45	30	30	15
45	15	60	45	15
30	90	15	45	60

Stella decided to create a frequency table to represent the data. Which number of minutes will have the greatest frequency?

A 15

B 45

C 30

D 60

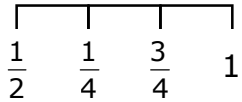
---

2. Selena went to the beach for a week. She recorded the length of the shells she found each day in the table below.

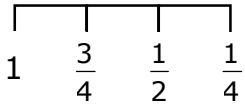
Length of Sea Shells Found (in inches)								
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1	$\frac{1}{2}$

Selena made a dot plot to represent the lengths of the shells. Which shows the way she correctly labeled the lengths on the number line in the dot plot?

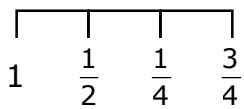
F



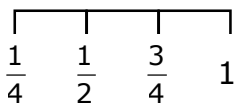
H



G



J



3. The school librarian recorded the number of books checked out each day for two weeks. She is making a stem-and-leaf plot to display the data.

Number of Books Checked Out				
88	87	94	70	83
90	74	75	85	94

Which could be a key for the stem-and-leaf plot the librarian is making?

A 7 | 4 represents 47 books

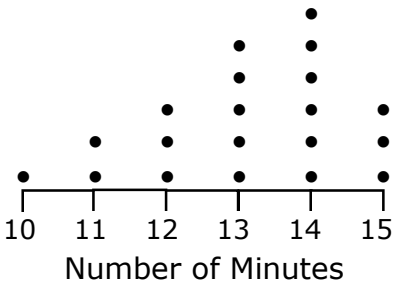
B 8 | 5 represents 85 books

C 7 | 0 represents 7 books

D 8 | 8 represents 8 books

---

4. Mrs. Garza gave her students a math puzzle to solve. She made the dot plot below to represent the number of minutes it took for her students to solve the puzzle.



Which data table is represented by the dot plot Mrs. Garza made?

F

Number of Minutes				
14	13	10	14	15
13	11	13	15	13
15	14	11	13	14
14	12	13	11	12

H

Number of Minutes				
14	13	10	14	12
13	11	14	15	13
11	14	12	13	14
14	12	13	11	12

G

Number of Minutes				
14	13	10	12	15
13	11	14	15	13
15	13	12	13	11
14	12	13	11	12

J

Number of Minutes				
14	13	10	14	15
13	11	14	15	13
15	14	12	13	14
14	12	13	11	12

5. Gabriel recorded the number of smoothies he sold on different days. He created the frequency table below to represent the data.

Number of Smoothies Sold	Frequency
7	3
8	4
10	7
12	2

Which table shows the data Gabriel used to create the frequency table?

A

Number of Smoothies Sold			
10	8	10	7
12	7	10	8
10	10	8	10
7	10	12	8

B

Number of Smoothies Sold			
7	8	10	7
12	7	10	8
10	10	8	10
7	8	12	8

C

Number of Smoothies Sold			
10	8	10	7
12	7	10	8
10	10	7	10
7	7	12	8

D

Number of Smoothies Sold			
10	8	8	7
12	7	10	8
10	10	8	10
7	10	7	8

---

6. The chart below represents the fraction of a whole pie ten different cousins ate at a family reunion.

Fraction of a Whole Pie Eaten				
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$

Kelsey has decided to make a frequency table to represent the data. What number will she put in the frequency column for $\frac{1}{8}$?

F 5

G 2

H 7

J 3

7. Lucas recorded the high temperature each day for eight days. He used the data to create the stem-and-leaf plot shown below.

High Temperature

Stem	Leaves
7	9
8	4 8 9
9	1 2 5 5

Key: 7 | 9 represents 79 °F

Which table of data is represented by the stem-and-leaf plot that Lucas created?

A

High Temperatures (°F)							
95	92	79	84	96	88	91	96

B

High Temperatures (°F)							
96	92	79	84	95	88	91	95

C

High Temperatures (°F)							
95	91	79	84	94	88	91	95

D

High Temperatures (°F)							
95	92	79	84	89	88	91	95

---

8. The chart below represents the number of glasses of orange juice ordered at the Texas Café during breakfast on 15 different days.

Glasses of Orange Juice Ordered				
21	42	36	21	35
17	35	41	22	19
40	35	34	21	22

A waitress wants to make a stem-and-leaf plot to represent this data. How many stems will she need in the stem-and-leaf plot?

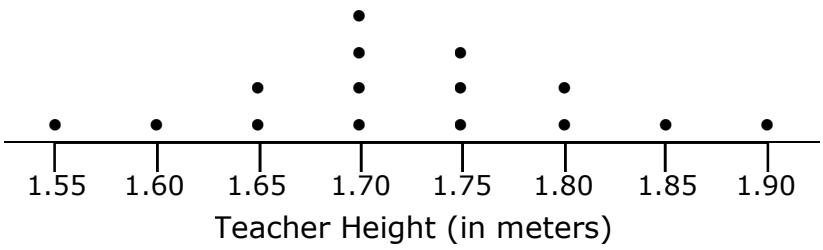
F 7

G 4

H 5

J 3

9. Zeva measured the height of teachers at her school in meters. The dot plot below represents the heights.



How many of the teachers measured 1.70 meters tall?

A 2

B 4

C 3

D 1

---

10. Neva decided to record the number of text messages she receives each day. Her data is shown below.

Number of Text Messages Sent Each Day				
31	19	17	19	23
25	31	16	14	31
32	37	15	23	28

Neva has decided to represent her data in a dot plot. How many dots will she place above the number 25?

F 1

G 3

H 4

J 2

NAME_____ DATE_____ SCORE ___/10

4.9A Mini-Assessment 3

1. Hilda recorded the number of free throws made during the basketball season by each member of her team. She used the data to create the stem-and-leaf plot shown below.

Number of Free Throws

Stem	Leaves				
1	0	2	4	4	5
2	4	7			
3	5	6	9		
4	0	0	7	9	

Key: 1 | 0 represents 10 free throws

What is the number of free throws made by the player with the greatest number of free throws?

A 14

B 94

C 79

D 49

---

2. The chart below represents the shoe size of fourth grade students.

Fourth Grade Student Shoe Sizes				
4	$5\frac{1}{2}$	4	$3\frac{1}{2}$	$5\frac{1}{2}$
$3\frac{1}{2}$	$2\frac{1}{2}$	3	$5\frac{1}{2}$	$2\frac{1}{2}$

Elissa has decided to make a dot plot to represent the data. What number will have 3 dots above it in a dot plot?

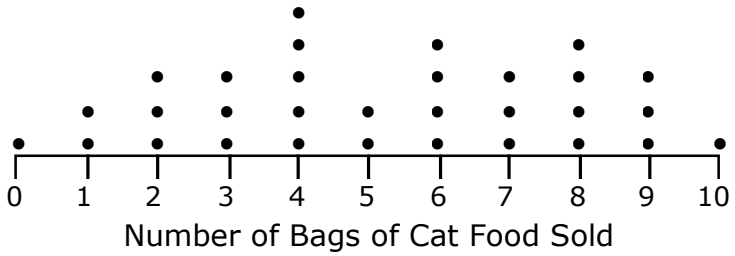
F $5\frac{1}{2}$

G $2\frac{1}{2}$

H $3\frac{1}{2}$

J 4

3. Callie created a dot plot to represent the number of bags of cat food sold at her pet store each day.



What is the greatest number of bags of cat food sold on any day?

A 1

B 10

C 5

D Not here

---

4. The chart below represents the number of text messages Felicia sent on 15 days.

Number of Text Messages Sent				
14	19	28	31	25
31	37	16	23	17
23	25	31	19	32

Felicia has decided to represent the data in a stem-and-leaf plot. What is the number of stems she will put in the stem-and-leaf plot?

F 15

G 2

H 10

J 3

5. Jeri walks her puppy each day. She recorded the distance they walked in the table below.

Distance Walked (in miles)				
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$

Jeri has decided to create a frequency table to represent the data. What number should she use in her frequency table to represent the number of times they walked $\frac{1}{2}$ mile?

A 2

B 5

C 3

D 4

---

6. Neva decided to record the number of text messages she receives each day. Her data is shown below.

Number of Text Messages Sent Each Day				
31	19	17	19	23
25	31	16	14	31
32	37	15	23	28

Neva has decided to represent her data in a stem-and-leaf plot. How many stems will she need to use?

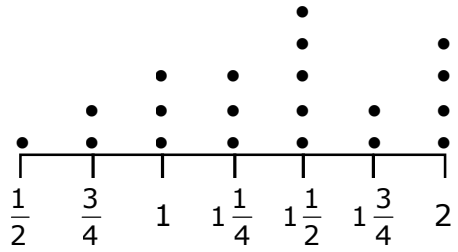
F 15

G 3

H 10

J 2

7. A baker recorded the weight of each loaf of bread he baked today, then he used the data to make a dot plot.



Weight of Loaves Baked Today
(in pounds)

What weight did the baker record for 5 of the loaves of baked bread?

A $1\frac{1}{4}$

B $1\frac{1}{2}$

C $1\frac{3}{4}$

D 2

---

8. The chart below represents the fraction of a whole pizza Yasmin's friends ate at a party.

Fraction of a Whole Pie Eaten				
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$

Yasmin has decided to make a dot plot to represent the data. What fraction of a pizza will have the greatest number of dots on the dot plot?

F $\frac{1}{4}$

G $\frac{3}{8}$

H $\frac{1}{8}$

J Not here

9. Jeri walks her puppy each day. She recorded the distance they walked in the table below.

Distance Walked (in miles)				
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$

Jeri has decided to create a frequency table to represent the data. How many distances will she put in her frequency table to represent the different distances they walked?

A 5

B 3

C 10

D Not here

---

10. Neva decided to record the number of text messages she receives each day. Her data is shown below.

Number of Text Messages Sent Each Day				
31	19	17	19	23
25	31	16	14	31
32	37	15	23	28

Neva has decided to represent her data in a frequency table. Which number of texts has the greatest frequency?

F 31

G 23

H 19

J 32

TEKSING TOWARD STAAR

MATHEMATICS®

GRADE 4

Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 6

Personal
Financial Literacy

NAME_____ DATE_____ SCORE ___/10

4.10A Mini-Assessment 1

1. Each month Jackson pays a house payment, a health club membership fee, a car payment, and the cost of food. Which of these expenses is a variable expense?

   A The house payment

   B The health club membership fee

   C The car payment

   D The cost of food

---

2. Doreen makes bracelets to sell in her jewelry store. Which is a fixed expense for her store?

   F The amount she pays for string for the bracelets

   G The amount she pays for advertising for her store

   H The amount she pays for beads for the bracelets

   J The amount she pays for rent for her store

---

3. Micah purchased a fence for his garden, 2 flats of plants, a shovel and a hoe. He pays a gardener $100 each week to take care of his garden. Which is a fixed expense for Micah?

   A The amount he paid for the plants

   B The amount he paid for the fence

   C The amount he pays the gardener

   D The amount he paid for the shovel and the hoe

---

4. Which of these best describes spending money on restaurant meals?

   F Expense for Production

   G A variable expense

   H Expense for Investment

   J A fixed expense

5. Which of these is an example of a fixed expense because the cost does **NOT** change from week to week or month to month?

   A The cost of clothing

   B The cost of gasoline

   C The cost of video rentals

   D The cost of apartment rent

---

6. Which of these is an example of a variable expense?

   F The amount of a car payment

   G The cost of a vacation

   H The amount paid for car insurance

   J The amount of a house payment

---

7. Mariah usually pays $15 for snacks at the movie each month. Which of these describes the amount she pays for snacks at the movie?

   A A fixed expense

   B A periodic expense

   C A savings deposit

   D A variable expense

---

8. Each month Veronica pays a rent payment, a cable television bill, an electricity bill and a golf club membership. Which of these expenses is a variable expense?

   F The rent payment

   G The cable television bill

   H The electricity bill

   J The golf club membership

9. A beauty salon owner pays $1,200 each month for rent. She pays $15 an hour to the man who cleans the shop. He works 60 hours each month. What is the total of these monthly fixed expenses?

   A $1,290

   B $2,100

   C $1,800

   D $3,000

---

10. Lauren rides a bus to work and back home 5 days each week. The bus fare is $1.25 each way. She buys a newspaper to read on the bus for $0.75 each day. How much does she spend on these fixed expenses each week?

    F $10.00

    G $6.25

    H $16.25

    J $12.50

NAME_____ DATE_____ SCORE ___/10

4.10A Mini-Assessment 2

1. Kendrick has car expenses each month. Which of these car expenses is fixed?

   A The monthly car payment

   B The cost of gasoline for the month

   C The cost of toll road fees for the month

   D The cost of parking for the month

---

2. Stella pays $2.20 for a school lunch each school day. She also buys a $1.00 cookie at the bakery on her way home from school each day. What is the amount of Stella's fixed expenses for a 5-day school week?

   F $22.25

   G $15.75

   H $17.25

   J $16.00

---

3. Harold used a table to record some of his expenses for the month of October.

October Expenses	
Expense	Amount
Gasoline	$83
Food	$108
Car Loan	$221
Entertainment	$72

   Which of Harold's expenses is a fixed expense?

   A Gasoline

   B Food

   C Car loan

   D Entertainment

---

4. Jasmin is a college student who lives in an apartment. Which of these is a variable expense for Jasmin?

   F Rent payments

   G College tuition

   H Car loan payments

   J Meals in restaurants

5. Darcy made a table to keep track of some of her expenses for June.

June Expenses	
Expense	Amount
Gasoline	$108
Gym Membership	$37
Car Loan	$254
Rent	$375

Which item in the table is a variable expense?

A Gasoline

B Gym membership

C Car loan

D Rent

---

6. Lealys opened a sporting goods store at an outdoor mall. Which is a fixed expense for her business?

F Rent payments

G Advertising costs

H Electricity bill

J Tickets to sports events

---

7. Josie used a table to track some of her expenses for the month of January.

January Expenses	
Expense	Amount
Internet Access	$29
Student Loan	$85
Rent	$245
Electricity	$69

Which item in the table is a variable expense?

A Internet access

B Student loan

C Rent

D Electricity

8. Which of the following is a fixed expense?

   F Entertainment costs

   G Electric bill

   H Car payment

   J Cost of food

---

9. Reggie made a table to record some of his expenses for the month of March.

March Expenses	
Expense	Amount
Food	$216
Gym Membership	$59
Gasoline	$147
Electricity	$113

   Which item in the table is a fixed expense?

   A Food

   B Gym Membership

   C Gasoline

   D Electricity

---

10. Which is a variable expense?

   F Rent payment

   G Mortgage payment

   H Newspaper subscription

   J Vacation costs

TEKSING TOWARD STAAR

MATHEMATICS ®

GRADE 4

STAAR Format Periodic Assessments

Containing Multi-TEKS

Answer Key and TEKS/STAAR Category and Standard Correlation

- Copy 1 assessment for each student.
- Students answer the questions individually, however, the same assistance may be given as will be allowed on the actual STAAR.

Question	Answer	TEKS Assessed	STAAR Category	STAAR Standard
1	D	4.2A	1	Supporting
2	H	4.2B	1	Readiness
3	D	4.2C	1	Supporting
4	J	4.2D	1	Supporting
5	B	4.2E	1	Supporting
6	J	4.2F	1	Supporting
7	D	4.2G	1	Readiness
8	J	4.2H	1	Supporting
9	D	4.3A	1	Supporting
10	J	4.3B	1	Supporting
11	204	4.4F	2	Supporting
12	H	4.4G	2	Supporting
13	D	4.4H	2	Readiness
14	H	4.5A	2	Readiness
15	C	4.5B	2	Readiness
16	H	4.5D	3	Readiness
17	B	4.6A	3	Supporting
18	H	4.6B	3	Supporting
19	C	4.6C	3	Supporting
20	J	4.6D	3	Readiness

1. A small Texas school district has about 800 students. A larger Texas school district has 10 times as many students. About how many students does the larger school district have?

   A 80

   B 8

   C 80,000

   D 8,000

---

2. What is the value of the 6 in the number 284,375.68?

   F (6 x 100)

   G (6 x 10)

   H (6 x 0.1)

   J (6 x 0.01)

---

3. The chart shows the number of students that wore different color of shorts to school.

Students Wearing Shorts

Color of Shorts	Number of Students
Red	133
White	127
Blue	145
Yellow	139

Which of the following is **NOT** a correct comparison of the numbers of students who wore different colors of shorts?

A 127 < 133 < 139

B 145 > 139 > 133

C 133 < 145 > 139

D 145 > 133 < 127

---

4. An oceanography website had 3,793,624 visitors last year. Yasmina rounded the number of visitors to the nearest hundred thousand for a newspaper article. Which number shows how she rounded 3,793,624?

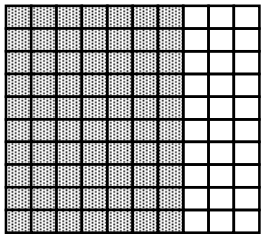
   F 3,784,400

   G 3,780,000

   H 3,790,000

   J 3,800,000

5. The whole grid in this model represents 1 unit.



What decimal is represented by the shaded part of the model?

A 0.77

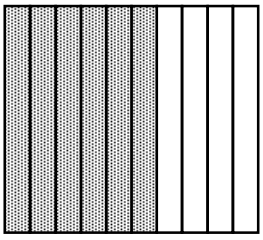
B 0.7

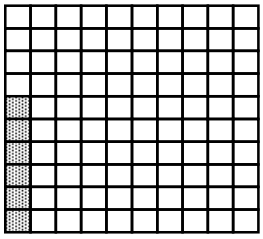
C 0.07

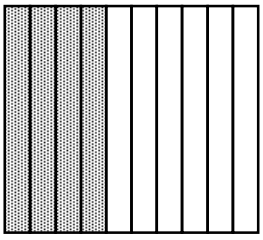
D 70

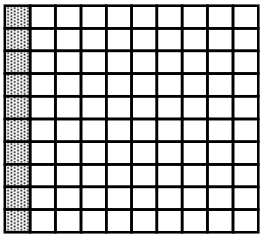
---

6. Four different decimals are represented by the shaded parts of the models shown below.


Model 1


Model 2


Model 3


Model 4

Which is the order of the shaded part of the decimal models from greatest to least?

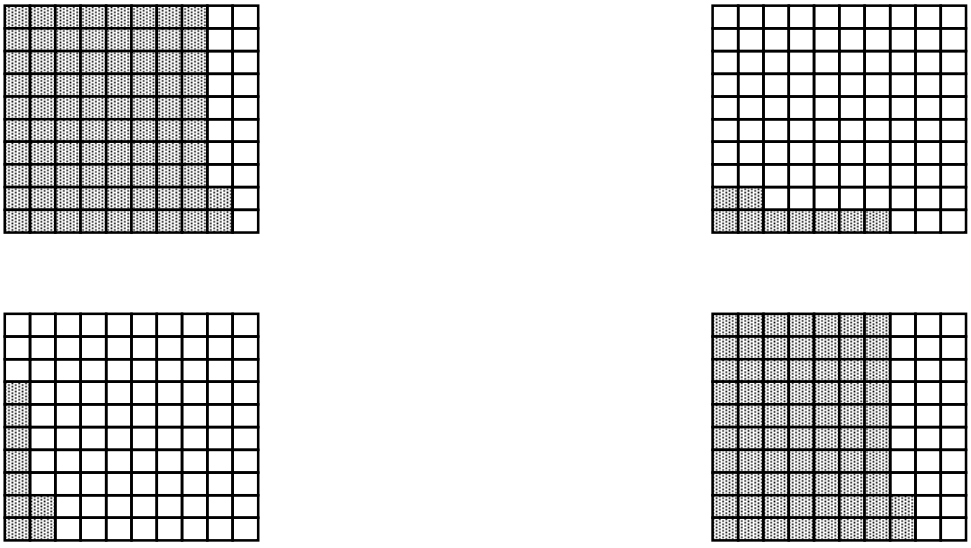
F Model 1, Model 3, Model 2, Model 4

G Model 2, Model 4, Model 3, Model 1

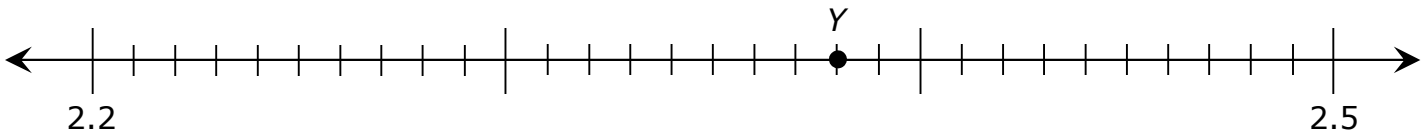
H Model 3, Model 1, Model 4, Model 1

J Model 1, Model 3, Model 4, Model 2

7. Each model shown below is shaded to represent a number less than 1. Which model can be represented by 0.72 and $\frac{72}{100}$?



8. Look at the number line.



Which numbers does point *Y* best represent?

F 2.48 and $2\frac{48}{100}$

G $2\frac{32}{100}$ and 2.32

H 2.42 and $2\frac{42}{100}$

J $2\frac{38}{100}$ and 2.38

9. Which fraction is represented by the sum of $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$?

A $\frac{1}{40}$

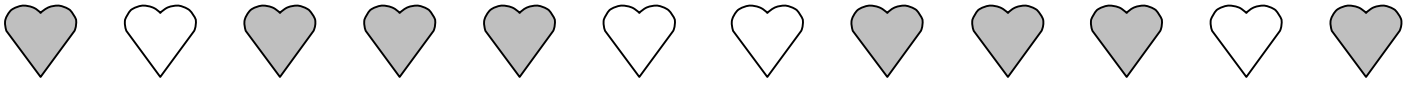
B $\frac{4}{8}$

C $\frac{8}{5}$

D $\frac{5}{8}$

---

10. Lloyd colored large hearts for the Valentine's Day bulletin board in the school hallway. The fraction of the hearts he colored red is represented by the shaded hearts in the model shown below.



Which of the following does **NOT** represent the fraction of the hearts Lloyd colored red?

F $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$

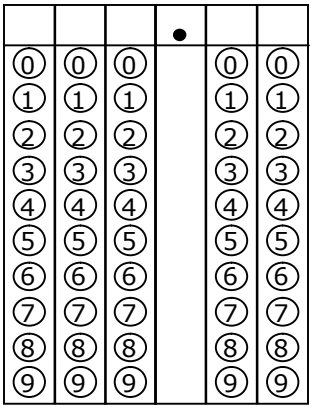
G $\frac{8}{12}$

H $\frac{4}{12} + \frac{4}{12}$

J $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

11. Mrs. Billings is buying supplies for her art class. She can buy large bottles of paint for $8 each. She has a budget of $1,632 for paint. How many bottles of paint can she buy?

    Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.



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12. There are 441 holiday lights on 9 strings. About how many lights are on each string if all the strings have the same number of lights?

    F 70

    G 20

    H 50

    J 80

---

13. Kendra wants to put 37 games on 5 shelves. She wants to put the same number of games on each shelf and she will put the remaining games into a box. How many games will Kendra put in the shelves and how many books will she put into the box?

    A She will put 2 games on each shelf and 17 games in the box.

    B She will put 6 games on each shelf and 17 games in the box.

    C She will put 3 games on each shelf and 12 games in the box.

    D She will put 7 games on each shelf and 2 games in the box.

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14. A brown bear at the Cameron Park Zoo ate 19,790 calories of food on Thursday. The bear ate 11,037 of those calories before noon and 3,703 calories after 4 P.M. What is the number of calories the bear ate between noon and 4 P.M.?

    F 4,940

    G 8,753

    H 5,050

    J 14,740

15. During the month of June, Alicia made miniature U.S. flags each day of the month. The number of flags she made each day is 2 more than the day number. The input/output table represents the *d* day number and the number of *f* flags she made for each of the first four days in June. The rule she used is $d + 2$.

Input, Position	**Numerical Expression**	**Output, Value**
d	***d* + 2**	***f***
1	1 + 2	3
2	2 + 2	4
3	3 + 2	5
4	4 + 2	6

Which of the following is NOT true?

A Alicia will make 24 potholders on day 22 because $22 + 2 = 24$.

B The value of the position is 2 more than the position number.

C The output is 3 more than the input.

D The value of position 19 is 21.

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16. A small rectangular vegetable garden is 12 feet long and 18 feet wide. What is the perimeter of the garden?

F 36 feet

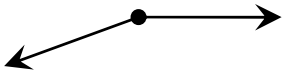
G 30 feet

H 60 feet

J 216 feet

---

17. Look at the angle.



What is this type of angle?

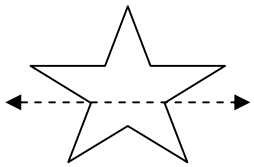
A Right angle

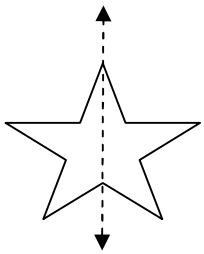
B Obtuse angle

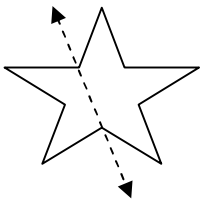
C Acute angle

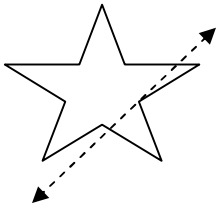
D Straight angle

18. Niko is making a pattern using a star shape. Which star has a correctly drawn line of symmetry?

F 

H 

G 

J 

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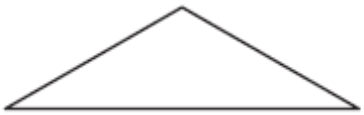
19. Look at this figure.



Which is a name for this figure?

A Right triangle

B Straight angle

C Obtuse triangle

D Acute triangle

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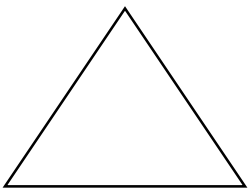
20. An equilateral triangle is shown below.



Which statement about the triangle is true?

F The triangle has only two sides that are of equal length.

G None of the sides of the triangle are of equal length.

H The triangle has 2 sides that form a right angle.

J All sides of the triangle are of equal length.