TEKSING TOWARD STAAR

MATHEMATICS ®

GRADE 4

STAAR

Blueprint

Assessments

OVERVIEW

These Blueprint Assessments were created to provide teachers with assessments that include the same number of questions as the actual STAAR assessment. Blueprint Assessment 1 and Blueprint Assessment 2 give teachers the opportunity to assess the TEKS assessed on STAAR, as well as an opportunity to assess the endurance level of students as they strive to successfully complete an assessment the actual length of the STAAR. An answer key and TEKS correlation is provided for each item on each assessment. Teacher Notes regarding suggestions for administration of the assessments are also included.

The design of the Blueprints Assessments takes into consideration the following information from the STAAR Grade 4 Mathematics Blueprint released from the TEA in January 2014:

- 60% - 65% of the questions will assess Readiness Standards – 29-31 of 48 total questions
- 35% - 40% of the questions will assess Supporting Standards – 17-19 of 48 total questions
- 45 questions will be multiple choice format and 3 questions will be griddable format

AUTHORS' VISION FOR IMPLEMENTATION

- Blueprint Assessments can be broken up into sections and given over a period of time, or can be given in a STAAR day type setting.
- Blueprint Assessment 1 is designed to be given at the beginning of a school year, as much to find out what students HAVE mastered, as to find out what students HAVE NOT mastered.
- Blueprint Assessment data should be recorded in a Class Profile and a Student Profile.
- Blueprint Assessment 2 is designed to be given at the beginning of the second semester to assess whether students are able to demonstrate mastery of TEKS that have been taught, as well as assess TEKS that have not been taught.
- Blueprint Assessment 2 should help teachers make instructional decisions regarding time spent on whole class instruction for TEKS that have not been taught, as well as time spent on TEKS in tutorial settings – for whole class and/or small group.

PRINTING INSTRUCTIONS

Open **Blueprint Assessments** folder on CD

- Open and Print **Assessment 1** - Close **Assessment 1**
- Open and Print **Assessment 2** - Close **Assessment 2**

Close **Blueprint Assessments** folder

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GRADE 4

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Blueprint

Assessment 1

Teacher Notes:

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This Blueprint Assessment has been designed with the above information in mind and includes 48 questions so that teachers and students will be able to have a feel for the time it will take students to complete the actual STAAR test.

Remember to encourage your students to utilize the Grade 4 Mathematics Reference Materials. You might consider copying the chart on cardstock for stability when students are using the rulers to answer test items.

TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 1
Grade 4
Answer Key, Category/Standard and TEKS Correlation

Question	Answer	Category/ Standard	TEKS		Question	Answer	Category/ Standard	TEKS
1	D	1/Readiness	4.2B		**25**	B	1/Readiness	4.2G
2	F	2/Readiness	4.3E		**26**	H	2/Readiness	4.3E
3	A	3/Readiness	4.5D		**27**	C	3/Readiness	4.8C
4	H	2/Readiness	4.4A		**28**	F	2/Readiness	4.4A
5	D	1/Supporting	4.2A		**29**	C	1/Supporting	4.3A
6	2	4/Readiness	4.9A		**30**	G	3/Readiness	4.5D
7	B	3/Readiness	4.6D		**31**	D	4/Readiness	4.9A
8	F	2/Supporting	4.3F		**32**	H	3/Supporting	4.7D
9	C	1/Readiness	4.2G		**33**	A	1/Readiness	4.3D
10	J	3/Supporting	4.6A		**34**	J	2/Supporting	4.4D
11	B	4/Readiness	4.9A		**35**	D	3/Readiness	4.6D
12	H	3/Readiness	4.7C		**36**	945	2/Readiness	4.4H
13	80	1/Supporting	4.2D		**37**	B	1/Supporting	4.3C
14	H	2/Readiness	4.4H		**38**	H	2/Readiness	4.5A
15	D	3/Supporting	4.6B		**39**	B	3/Readiness	4.7C
16	J	2/Readiness	4.5A		**40**	H	1/Readiness	4.2B
17	D	1/Readiness	4.3D		**41**	A	3/Supporting	4.7E
18	G	2/Supporting	4.4B		**42**	J	2/Supporting	4.4E
19	B	3/Readiness	4.8C		**43**	D	3/Readiness	4.8C
20	J	2/Readiness	4.5B		**44**	H	2/Readiness	4.5B
21	D	1/Supporting	4.2F		**45**	B	1/Readiness	4.3D
22	J	3/Supporting	4.6C		**46**	J	3/Readiness	4.8B
23	D	2/Supporting	4.4C		**47**	C	4/Supporting	4.10B
24	F	4/Supporting	4.9B		**48**	G	2/Supporting	4.4G

Mathematical Process Standards: The student expectations are not listed under a separate reporting category. However, these standards are incorporated into all test questions included in the TEKSING TOWARD STAAR Blueprint Assessment 1 since the application of mathematical process standards is part of each knowledge statement.

1. What is the value of the 7 in the number 37,260,485?

   A (7 x 10,000)

   B (7 x 10,000,000)

   C (7 x 100,000)

   D (7 x 1,000,000)

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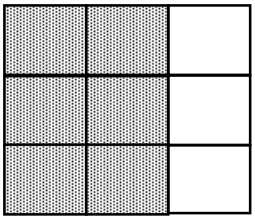
2. Leslie cut a yard of red felt into 9 equal pieces. She and her sisters used $\frac{2}{3}$ of the pieces to make holiday decorations, as shown by the shaded part of the picture below.



What fraction of the yard of felt was left?

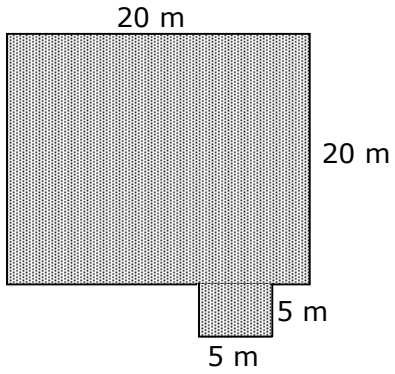
F $\frac{1}{3}$

G $\frac{1}{9}$

H $\frac{2}{3}$

J $\frac{3}{6}$

3. Bill is planting a butterfly garden for a zoo. A rock border will be put around the sides of the garden as shown on the diagram.



Which process can Bill use to find the total length of rock he will need for the border?

A First, find the perimeter of the 20×20 section. Next, find the perimeter of the 5×5 section. Finally, find the sum of the perimeters of the two sections.

B First, find the area of the 20×20 section. Next, find the area of the 5×5 section. Finally, find the sum of the areas of the two sections.

C First, find the area of the 20×20 section. Next, find the area of the 5×5 section. Finally, subtract the area of the sandbox from the area of the playground.

D First, find the perimeter of the 20×20 section. Then, add the lengths of two sides of the 5×5 section to the perimeter of the 20×20 section

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4. Four people training for a track meet run each day. Samantha runs 2.62 miles, Lyle runs 3.02 miles, Sean runs 2.78 miles and Meredith runs 3.8 miles. Which two people run for a total of 5.4 miles each day?

F Samantha and Meredith

G Lyle and Meredith

H Samantha and Sean

J Lyle and Sean

---

5. Which number has a 7 in the place-value position that is 10 times the value of the tenths place?

A 304,879.26

B 48,273.59

C 98,253.17

D 628,387.12

6. 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?

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

			•		
⓪	⓪	⓪		⓪	⓪
①	①	①		①	①
②	②	②		②	②
③	③	③		③	③
④	④	④		④	④
⑤	⑤	⑤		⑤	⑤
⑥	⑥	⑥		⑥	⑥
⑦	⑦	⑦		⑦	⑦
⑧	⑧	⑧		⑧	⑧
⑨	⑨	⑨		⑨	⑨

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7. A polygon has a perimeter of 24 inches and contains 4 right angles. Each side of the polygon is exactly 6 inches long. Which figures does this describe?

A A triangle

B A square

C A pentagon

D A hexagon

8. Suki walks $\frac{1}{6}$ mile each way to and from school. She added the distances together and decided the sum is $\frac{6}{6}$. Which statement best describes the sum of $\frac{6}{6}$?

F The sum of $\frac{6}{6}$ is not reasonable because $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$.

G The sum of $\frac{6}{6}$ is reasonable because $1 - \frac{3}{4} = \frac{1}{4}$.

H The sum of $\frac{6}{6}$ is reasonable because $\frac{1}{2} + \frac{1}{2} = 1$.

J The sum of $\frac{6}{6}$ is reasonable because $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$.

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9. Which of the following is true?

A $\frac{54}{100} = 5.04$

B $9.8 = 9\frac{8}{100}$

C $1\frac{7}{100} = 1.07$

D $\frac{5}{10} = 0.05$

TEKSING TOWARD STAAR

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GRADE 4

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Blueprint

Assessment 2

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TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 2
Grade 4
Answer Key, Category/Standard and TEKS Correlation

Question	Answer	Category/ Standard	TEKS		Question	Answer	Category/ Standard	TEKS
1	C	1/Readiness	4.2B		**25**	D	1/Readiness	4.2G
2	J	2/Readiness	4.3E		**26**	H	2/Readiness	4.3E
3	D	3/Readiness	4.5D		**27**	A	3/Readiness	4.8C
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10	G	3/Supporting	4.6A		**34**	H	2/Supporting	4.4E
11	D	4/Readiness	4.9A		**35**	C	3/Readiness	4.6D
12	J	3/Readiness	4.7C		**36**	G	2/Readiness	4.4H
13	0	1/Supporting	4.2E		**37**	B	1/Supporting	4.3G
14	7	2/Readiness	4.4H		**38**	G	2/Readiness	4.5A
15	A	3/Supporting	4.6B		**39**	C	3/Readiness	4.7C
16	H	2/Readiness	4.5A		**40**	H	1/Readiness	4.2G
17	A	1/Readiness	4.3D		**41**	B	3/Supporting	4.8A
18	F	2/Supporting	4.4C		**42**	204	2/Supporting	4.4F
19	A	3/Readiness	4.8C		**43**	D	3/Readiness	4.8C
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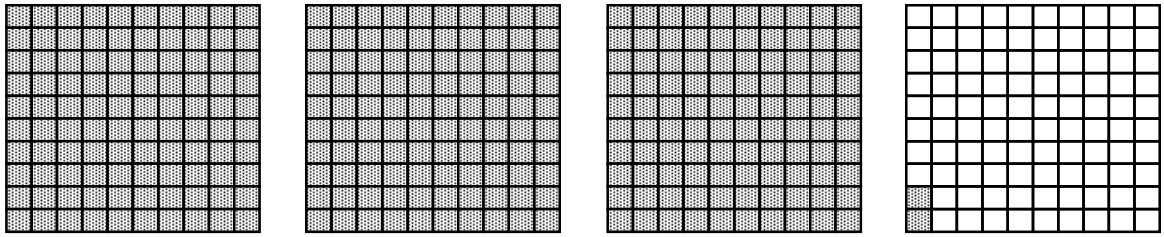
40. The model shown below is shaded to represent a number greater than 1.



Which fraction and decimal represent this number?

F $\frac{32}{100}$ and 0.32

G $3\frac{2}{10}$ and 3.2

H $3\frac{2}{100}$ and 3.02

J $3\frac{2}{10}$ and 3.02

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41. Les bought a box of candy at the movie theater. Which unit should Les use to describe the length of the box of candy?

A 15 millimeters

B 15 centimeters

C 15 kilometers

D 15 meters

42. 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.

			•		
⓪	⓪	⓪		⓪	⓪
①	①	①		①	①
②	②	②		②	②
③	③	③		③	③
④	④	④		④	④
⑤	⑤	⑤		⑤	⑤
⑥	⑥	⑥		⑥	⑥
⑦	⑦	⑦		⑦	⑦
⑧	⑧	⑧		⑧	⑧
⑨	⑨	⑨		⑨	⑨

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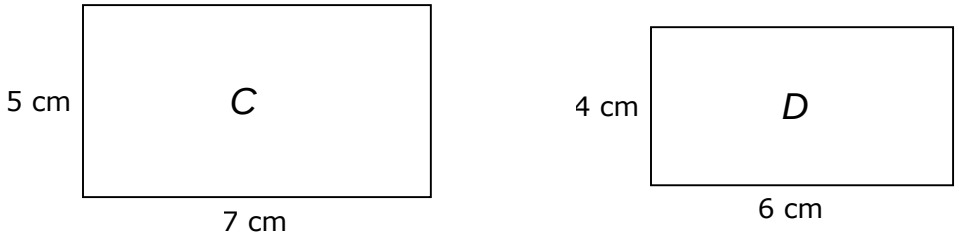
43. Look at the rectangles below.



The perimeter of rectangle *C* is how many centimeters greater than the perimeter of rectangle *D*?

A 1 cm

B 2 cm

C 3 cm

D 4 cm

44. The input/output table shows the relationship between the number of students in *b* band, the input and the number who do not play *d* drums, the output. The output is $b - 4$.

Input, Position	***b***	24	30	36	40
Output, Value	***d***	20	26	32	

Which of the following is true?

F If the number of students in band is 20, then 14 of them do not play drums.

G If the number of students in band is 34, then 29 of them do not play drums.

H If the number of students in band is 40, then 36 of them do not play drums.

J If the number of students in band is 38, then 32 of them do not play drums.

---

45. What is the value of the 1 in the number 96,128,574?

A (1 x 100)

B (1 x 10,000,000)

C (1 x 10,000)

D (1 x 100,000)

---

46. The table below shows the relationship between years and months.

Number of Years	Number of Months
2	24
3	36
5	60
6	72

Based on the information in the table, what is the number of months in 9 years?

F 84 months

G 108 months

H 96 months

J Not here

47. Steve wants to save his money to buy a new computer that costs $800. Which is an advantage of Steve putting his money into a savings account at a financial institution rather than keeping his money at home?

A He will not earn interest if he keeps his money at home.

B He will not be able to use the money to buy something if puts his money into a savings account at a financial institution.

C He will earn interest if he puts his money into a savings account at a financial institution.

D His money may be lost if he keeps his money at home.

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48. Mt. Bear and Mt. Bona are two mountains in Alaska. Mt. Bear is 14,831 feet tall and Mt. Bona is 16,421 feet tall. Rounded to the nearest hundred, how much taller is Mt. Bona than Mt. Bear?

F 21,200 feet

G 600 feet

H 1,800 feet

J 1,600 feet