

GRADE 5 STAAR Format Skills and Concepts

Organized by TEKS Categories



This document was created with all students in mind and provides teachers with sets of 5 open-ended questions to assess student mastery of all grade level TEKS, including the Process Standards TEKS, and the TEKS not assessed on STAAR. Each set of questions in this document is correlated to a specific Category and TEKS.

There are 8 sets of 5 open-ended questions to assess student mastery of each of the 7 Process Standards TEKS. Each question on each set is also correlated to another TEKS. There is one question in each of the sets for each of the Process Standards TEKS that addresses each of the grade level TEKS.

These materials can be utilized for guided practice, independent practice, or homework. These materials can be utilized with a whole class, or in small groups and/or tutorial settings.

NOTE: There is no answer key provided for the Skills and Concepts problems as the author's philosophy is that each teacher should create a personalized Solutions Manual so the teacher becomes more familiar with the Revised TEKS and assessment of the Revised TEKS, as well as formulates various solution strategies for each question. Teachers are encouraged to communicate with the author regarding discussion of any question in this document.

AUTHOR'S VISION FOR IMPLEMENTATION - SKILLS AND CONCEPTS

- Skills and Concepts are open-ended questions that are organized by individual TEKS. Each Skills and Concepts includes 5 open-ended questions.
- The teacher sets a time limit prior to students' beginning the Skills and Concepts if the material is being utilized for independent practice.
- Students work on Skills and Concepts in partner pairs even during independent practice. Partner pairs are given specific "share questions" on the Skills and Concepts. The process that should be followed by all partner pairs is to complete the question(s) they are assigned, then work on the other questions until time is called.
- The teacher calls time and the partner pairs guide class discussion on their "share questions" assignments. Students who did not complete the Skills and Concepts prior to the time limit may record on their individual papers during the discussion time but must record in a different color.
- A Skills and Concepts should not be sent home for homework until the majority of the class has demonstrated mastery of the TEKS addressed.

TEKS Category 1 - Mathematical Process Standards

(5.1) Mathematical Process Standards

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

STAAR Category	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
1-4	5.1(A)	apply mathematics to problems arising in everyday life, society, and the workplace	8
1-4	5.1(B)	use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	8
1-4	5.1(C)	select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	8
1-4	5.1(D)	communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	8
1-4	5.1(E)	create and use representations to organize, record, and communicate mathematical ideas	8
1-4	5.1(F)	analyze mathematical relationships to connect and communicate mathematical ideas	8
1-4	5.1(G)	display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	8

TEKS Category 2: Number and Operations

(5.2) Number and Operations

The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.2(A)	represent the value of the digit in decimals through the thousandths using expanded notation and numerals	4
Readiness	5.2(B)	compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or =	4
Supporting	5.2(C)	round decimals to tenths or hundredths	4

(5.3) Number and Operations

The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.3(A)	estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division	4
Supporting	5.3(B)	multiply with fluency a three-digit number by a two-digit number using the standard algorithm	4
Supporting	5.3(C)	solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm	4
Supporting	5.3(D)	represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models	4
Readiness	5.3(E)	solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers	4
Supporting	5.3(F)	represent quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using objects and pictorial models, including area models	4
Readiness	5.3(G)	solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm	4
Supporting	5.3(H)	represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations	4
Supporting	5.3(I)	represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models	4
Supporting	5.3(J)	represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as $1/3 \div 7$ and $7 \div 1/3$ using objects and pictorial models, including area models	4
Readiness	5.3(K)	add and subtract positive rational numbers fluently	4
Readiness	5.3(L)	divide whole numbers by unit fractions and unit fractions by whole numbers	4

TEKS Category 3: Algebraic Reasoning

(5.4) Algebraic Reasoning

The student applies mathematical process standards to develop concepts of expressions and equations.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.4(A)	Identify prime and composite numbers	4
Readiness	5.4(B)	represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity	4
Readiness	5.4(C)	generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph	4
Supporting	5.4(D)	recognize the difference between additive and multiplicative numerical patterns given in a table or graph	4
Supporting	5.4(E)	describe the meaning of parentheses and brackets in a numeric expression	4
Readiness	5.4(F)	simplify numerical expressions that do not involve exponents, including up to two levels of grouping	4
Readiness	5.4(H)	represent and solve problems related to perimeter and/or area and related to volume	4

		TEKS Category 4: Geometry and Measurement	
The s	student a	(5.5) Geometry and Measurement applies mathematical process standards to classify two-dimension by attributes and properties.	al figures
STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Readiness	5.5(A)	classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties	4
The studen	t applies	(5.6) Geometry and Measurement mathematical process standards to understand, recognize, and c	quantify volume.
STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.6(A)	recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible	4
Supporting	5.6(B)	determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base	4
The st	udent ap	(5.7) Geometry and Measurement plies mathematical process standards to select appropriate units, and tools to solve problems involving measurement.	strategies,
STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.7(A)	solve problems by calculating conversions within a measurement system, customary or metric	
The stude	ent appli	(5.8) Geometry and Measurement es mathematical process standards to identify locations on a coor	rdinate plane.
STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.8(A)	describe the key attributes of the coordinate plane, including perpendicular number lines (axes) where the intersection (origin) of the two lines coincides with zero on each number line and the given point (0, 0); the x-coordinate, the first number in an ordered pair, indicates movement parallel to the x-axis starting at the origin; and the y-coordinate, the second number, indicates movement parallel to the y-axis starting at the origin	Supporting
Supporting	5.8(B)	describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane	Supporting
Readiness	5.8(C)	graph in the first quadrant of the coordinate plane ordered pairs of numbers arising from mathematical and real-world problems, including those generated by number patterns or found in an input- output table.	Readiness

TEKS Category 5: Data Analysis

(5.9) Data Analysis

The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts
Supporting	5.9(A)	represent categorical data with bar graphs or frequency tables and numerical data, including data sets of measurements in fractions or decimals, with dot plots or stem-and-leaf plots	4
Supporting	5.9(B)	represent discrete paired data on a scatterplot	4
Readiness	5.9(C)	Solve one- and two-step problems using data from a frequency table, cot plot, bar graph, stem-and-leaf plot, or scatterplot	4

TEKS Category 6: Personal Financial Literacy				
(5.10) Personal Financial Literacy The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.				
STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Skills & Concepts	
Supporting	5.10(A)	define income tax, payroll tax, sales tax, and property	2	
Supporting	5.10(B)	explain the difference between gross income and net	2	
Not Tested	5.10(C)	Identify the advantages and disadvantages of different methods of payment, including check, credit card, debit card, and electronic payments	1	
Not Tested	5.10(D)	develop a system for keeping and using financial records	1	
Supporting	5.10(E)	describe actions that might be taken to balance a budget expenses exceed income	2	
Supporting	5.10(F)	balance a simple budget	2	



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 1 Mathematical Process Standards

STAAR Category 1 & 2

GRADE 5

DATE

SCORE /10

TEKS 5.1B

NAME_

5.1B Skills and Concepts 1

5.2A

1. Read the number in the place-value chart.

Tens	Ones	•	Tenths	Hundredths	Thousandths
6	0		0	6	0

The number 60.060 in words is ______ and _____ Explain how you know your answer is correct.

5.2B

 Cheri cut crepe paper streamers for her sister's surprise birthday party. The yellow streamer is 5.861 meters long, the red streamer is 5.453 meters long, the blue streamer is 5.809 meters long, and the green streamer is 5.464 meters long.

Use a number line to compare the lengths of the yellow and blue streamers.

• Place a point at the location of the length of each streamer. Label each point with the number it represents.



5.2C

3. Jason rounded the number 9.394 to the number shown below.

9.39

To which place value did he round 9.394?

5.3A

4. Lyle needs to save \$235 to buy a new bicycle. He plans to mow lawns to earn money. He will charge \$24 for each lawn he mows. Show your work to estimate the number of lawns he needs to mow to have enough money to buy the bicycle. Use compatible numbers to write two different estimates for the number of lawns he needs to mow.

Estimate. 235 ÷ 24.

GRADE 5	TEKS 5.1B
le numbers nates.	→ ÷
icts to help	→ ÷
	GRADE 5

- Lyle will need to mow between _____ and _____ lawns to save enough money to buy the bicycle.
- The more reasonable estimate is _____ because _____ Lyle needs to make sure he has at least ______ to buy the bicycle.

So, Lyle needs to mow at least _____ lawns to have enough money for the bicycle.

5.3B

5. Henry ran around the track at school 12 times. The distance around the track is 440 yards. What was the total distance Henry ran? Show your work.

Henry ran a total distance of ______ yards around the track. Use reverse factors to check your answer in the space above.

STAAR Category 2	GRADE 5	TEKS 5.1B
NAME	DATE	SCORE /10

5.1B Skills and Concepts 2

5.3C

1. A golf ball company packs 12 golf balls in a box. Find the number of boxes the company will use to pack 1,020 golf balls. Show your work to find the number of boxes the company will need.

So, the golf ball company will need _____ boxes to pack 1,020 golf balls. Use multiplication to check your work in the space above.

5.3D

2. A multiplication problem can be solved using this model. Each line represents one tenth and each circle represents one hundredth.

0	0
0	0
0	0
0	0
0	0

The model shows the product of _____ and _____ is _____.

5.3E

3. A pattern is shown below.

$$1 \times 0.67 = 0.67$$

 $10 \times 0.67 = 6.7$
 $100 \times 0.67 = 67$

Write the equation that correctly represents the next product in this pattern.

STAAR Category 2	GRADE 5	TEKS 5.1B

5.3F

4. Tyrell and 3 classmates are on a science project team. The team presentation of their project was a total of 5.40 minutes long. Each person on the team presented for the same amount of time. Draw a quick picture to represent the amount of time each team member presented.



Explain how you know your quick picture represents the amount of time each team member presented.

The model shows each team member presented for _____ minutes.

5.3G

5. Miguel drank 43.68 liters of water during a 12-day camping trip. What is the average amount of water he drank each day during the trip? Show your work to find the answer.

He drank an average of ______ liters of water each day during the trip. Explain how you know your answer is correct.

5

STAAR Category 1 & 2

5.1B Skills and Concepts 4

5.4A

1. Decide which list contains exactly two prime numbers and two composite numbers.

2, 3, 4, 5

Does this list contain exactly two prime two composite numbers? ______ Explain how you know your answer is correct.

3, 4, 6, 9

Does this list contain exactly two prime two composite numbers? ______ Explain how you know your answer is correct.

5, 7, 8, 15 Does this list contain exactly two prime two composite numbers? _____ Explain how you know your answer is correct.

6, 8, 9, 11

Does this list contain exactly two prime two composite numbers? ______ Explain how you know your answer is correct.

5.4B

2. Owen scored 45 points on a computer game. He scored 16 fewer points than Darwin. How many points did Darwin score?

Draw a strip diagram and write an equation to solve this problem. Show your work on notebook paper.

Darwin scored _____ points. Explain how you know your answer is correct.

5.4C

3. The rule for the pattern in an input/output table is g = f + 2. What is the value of the output in the table if the input is 10? ______ Explain how you know your answer is correct.

TEKS 5.1B

SCORE ___/10

GRADE 5

DATE

NAME_

5.4D

4. The pattern in the graph represents the relationship between input, *j*, and output, *k*.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

5.4E

5. Tina bought a notebook and 12 pencils that cost \$0.35 each. She spent a total of \$8.00. Write an expression that represents this situation.

Explain how the situation and the expression match.

STAAR Category 1 & 3		GRADE 5	TEKS 5.1B		
NAME		DATE	SCORE/10		
	5.1B Skil	ls and Concepts 5			
5.4F					
1. Sin	nplify $4 \times [(12 + 4) - (12 \div 3)].$	Show your work on notebook p	aper.		
The	e expression	simplifies to			
Sin	Simplify 4 \times (16 – 4). Show your work on notebook paper.				
The	e expression	simplifies to			
Exp	blain why 4 × [(12 + 4) – (12 \div	3)] and 4 \times (16 – 4) simplify to	the same value.		

5.4H

2. Find the area of a square with a side that is 9 meters long.



5.6A

4. The model below represents the volume of a storage shed that was built at Melissa's house.



What is the volume of the storage shed? Show your work to find the answer.

5.6B

 Hidalgo is making rectangular prisms using 1-inch cubes. Each prism will be 6 inches tall. How many different bases can he make if each prism is made of exactly 24 one-inch cubes? Show your work to find the answer.

STAAR Category 3 & 4	GRADE 5	TEKS 5.1B
	DATE	SCODE /10

5.1B Skills and Concepts 6

5.7A

1. Yvette needed 500 centimeters of ribbon. How many millimeters of ribbon did she need? Show your work to find the answer.

Explain how you know your answer is correct.

5.8A

2. Four points are located on a coordinate plane.



What coordinate pair represents the location of point *Q*? (_____, ____) Explain how you know your answer is correct.

What coordinate pair represents the location of point *Z*? (_____, ____) Explain how you know your answer is correct.

What coordinate pair represents the location of point *U*? (_____, ____) Explain how you know your answer is correct.

What coordinate pair represents the location of point *Y*? (_____, ____) Explain how you know your answer is correct.

STAAR Category 3 & 4	GRADE 5	TEKS 5.1B

5.8B

3. Trina started at the origin on a coordinate plane to plot the point (4, 7). Complete the following to describe the process she used to plot the point.

She plotted the point (4, 7) at	units to the	of the
---------------------------------	--------------	--------

and _____ units _____. Explain how you know the process is correct.

5.8C

4. The rule for the pattern in the table below is c = f + 4. If *f* represents the *x*-coordinate and *c* represents the *y*-coordinate, which ordered pair represents the point for Figure 3 on a coordinate plane?

rigares with cheres				
Figure Number, f	1	2	3	4
Number of Circles, c	5	6	7	8

Figures with Circles

If *f* represents the *x*-coordinate and *c* represents the *y*-coordinate, what ordered pair represents the point for Figure 3 on a coordinate plane?

Explain how you know your answer is correct.

5.9A

5. The members a cross country track team are practicing for a meet. They practice running through the woods. The team coach recorded the distances they ran, then he made a frequency table to show the data.

Distance Ran During Practice			
Distance	Number of		
(in miles)	Team Members		
1.1	8		
1.4	4		
1.8	11		
2.2	9		
2.6	3		

- How many team members ran more than 2 miles during practice? ______
- How many team members ran during practice? ______
- How many more team members ran 1.1 miles and 2.2 miles than ran 1.4, 1.8, or 2.6 miles? _____

STAAR Category 4	GRADE 5	TEKS 5.1B
ΝΔΜΕ	DATE	SCORE /10

5.1B Skills and Concepts 7

5.9B

 A fifth grade science team conducted a ball drop experiment. They made a scatterplot to represent the height of the ball when it was dropped and the height of the first bounce of the ball.



Does the ordered pair (3, 6) represent a point on the scatterplot? ______ Explain how you know your answer is correct.

Does the ordered pair (6, 3) represent a point on the scatterplot? ______ Explain how you know your answer is correct.

Does the ordered pair (10, 15) represent a point on the scatterplot? ______ Explain how you know your answer is correct.

Does the ordered pair (12, 21) represent a point on the scatterplot? ______ Explain how you know your answer is correct.

5.9C

2. Felecia recorded the distance she walked around the school track on different days. Then she created a dot plot to represent the data.



Record the difference between the least number and the greatest number of miles she walked.

____ = ____

_____+ _____ + _____ = _____

Explain how you know your answer is correct.

• Record the number of days she walked 1.2, 1.3, or 1.4 miles.

Explain how you know your answer is correct.

5.10F

STAAR Category 4

3. The Monroe family monthly income is \$2,950. Their monthly expenses for September are shown below.

Monroe Family Expenses for September			
Rent \$1,250			
Utilities	\$244		
Food	\$560		
School Supplies	\$250		
Car Expenses	\$185		

What is the maximum amount the Monroe family can save in the month of September? Show your work to find the answer.

Explain how you know your answer is correct.

5.10A

 Tracy works in Texas, so she does not pay state income tax. She earns \$625 each week. Each week she pays \$39.57 in other taxes. Her final pay is \$437.4 each week. Find the amount she pays in federal income taxes each week. Show your work. Explain how you know your answer is correct.

5.10B

5. Teresa's gross monthly income is \$1,250. Her total monthly payroll taxes are \$175.63. What is the amount of Teresa's net monthly income? Show your work.

Teresa's net monthly income is \$_____. Explain why your answer is correct.



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 2 Number and Operations

STAAR Category 2	GRADE 5	TEKS 5.3K
NAME	DATE	SCORE/10

5.3K Skills and Concepts 1

1. A school choir made \$675.26 at a bake sale fund raiser. They spent \$195.15 of the money on stage decorations for a spring concert. How much money from the bake sale is left? Show your work to find the answer.

Explain how you know your answer is correct.

2. The 2000 estimated population of the Republic of Chile, a country in South America, was 14,995,500. The Republic of Columbia, also a country in South America, had a 2000 estimated population of 38,324,400. What is the difference between the 2000 estimated populations of the two countries? Show your work to find the answer.

Explain how you know your answer is correct.

3. Gerard had $\frac{7}{8}$ quart of chocolate milk. He drank $\frac{1}{4}$ quart of the chocolate milk. How much chocolate milk is left? Show your work to find the answer.

STAAR Category 2	GRADE 5	TEKS 5.3K

4. Johanna completed 3 forward twists in 2.86 seconds on the floor exercise in gymnastics competition. Lana completed 3 forward twists in 2.5 seconds. How many seconds longer did Johanna stay in the air than Lana? Show your work to find the answer.

Explain how you know your answer is correct.

5. Natalie swam $8\frac{2}{3}$ lengths of the city pool during swim class. Marcus swam 10.5 lengths during class. How many more lengths of the pool did Marcus swim than Natalie? Show your work to find the answer.

STAAR Category 2	GRADE 5	TEKS 5.3K	
NAME	DATE	SCORE/10	
5.3K Skills and Concepts 2			

1. Olivia had $\frac{9}{10}$ meter of decorative trim. She cut off $\frac{3}{5}$ meter of the trim to use on a jewelry box she is making. How much trim does Olivia have left? Show your work to find the answer.

Explain how you know your answer is correct.

2. Analisa spent $\frac{1}{8}$ of her allowance to buy watercolor paper and 0.75 of her allowance to buy watercolor paints. What part of her allowance did Analisa spend on the paper and paints? Show your work to find the answer.

Explain how you know your answer is correct.

3. The distance from Fiona's house to an amusement park is 11.85 miles. Fiona and her family have driven 9.10 miles so far. What is the distance they have left to travel before they reach the amusement park? Show your work to find the answer.

 Jerome and Evelyn are weather watchers. Each of them uses a rain gauge to measure rainfall amounts to report to a local radio station. The drawing below shows the amount of rain water in each rain gauge after a rainstorm.



Jerome's Rain Gauge



Evelyn's Rain Gauge

What is the difference between the amount of rain water in Jerome's rain gauge and the amount in Evelyn's rain gauge? Show your work to find the answer.

Explain how you know your answer is correct.

Lorena had \$718.54 in her checking account. She deposited an additional \$50.25 into her account. How much will she have left in her account after she spends \$147.29 to pay her electric bill? Show your work to find the answer.

STAAR Category 2	GRADE 5	TEKS 5.3K
ΝΔΜΕ	DATE	SCORE /10

5.3K Skills and Concepts 3

1. Mr. Sierra has \$805.62 in his checking account. How much does he have after he spends \$137.84 on groceries? Show your work to find the answer.

Explain how you know your answer is correct.

2. Mitch and his sister collect aluminum cans for recycling. Mitch has 435 cans, and his sister has 376. How many more cans do they need to collect in order to reach their goal of 900 cans? Show your work to find the answer.

Explain how you know your answer is correct.

3. Benji used $\frac{3}{10}$ of a package of notebook paper to write his science fair report. He used $\frac{2}{5}$ of the same package of notebook paper to write his history fair report. How much of the package of notebook paper did Benji use to write the two reports? Show your work to find the answer.

4. Jane went to the animal shelter to adopt a kitten. When she brought the kitten home it weighed 3.95 kilograms. The kitten gained 1.5 kilograms in the first month and 1.75 kilograms in the second month. What was the kitten's weight at the end of the second month? Show your work to find the answer.

Explain how you know your answer is correct.

5. Teri received $\frac{3}{4}$ of the votes for most valuable player on the soccer team. Miguel received $\frac{1}{5}$ of the votes. What fraction of the votes were for a player other than Teri or Miguel? Show your work to find the answer.

STAAR Category 2	GRADE 5	TEKS 5.3K				
NAME	DATE	SCORE/10				
5.3K Skills and Concepts 4						
4 T · · · · · · · · · · · · · · · · · · ·						

1. Trisha jogged around the school track $5\frac{1}{3}$ times during PE class. Sunjay jogged around the same track $7\frac{1}{6}$ times. How many more times did Sunjay jog around the track than Trisha? Show your work to find the answer.

Explain how you know your answer is correct.

2. Lecretia measured the distance from her classroom to the library. She measured 52.25 meters to the end of the hall, then she measured another 32.85 meters from the end of the hall to the library. What is the distance from Lecretia's classroom to the library? Show your work to find the answer.

Explain how you know your answer is correct.

3. Janie is cutting lengths of fabric for a decorating project. One length of fabric is $3\frac{2}{3}$ yards long, and a second length of fabric is 8 yards long. How much longer is the

second length of fabric than the first length of fabric? Show your work to find the answer.

Explain how you know your answer is correct.

4. Priscilla used color tiles to make $\frac{1}{8}$ of a design red and $\frac{2}{3}$ of the design yellow. She made the rest of the design green. How much of the design did Priscilla make red and yellow? Show your work to find the answer.

Explain how you know your answer is correct.

5. Serena had a beginning monthly balance of \$926.94 in her savings account. How much money will she have left after she withdraws \$149.57? Show your work to find the answer.



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 3

Algebraic Reasoning

STAAR Category 2		GRADE 5			TEKS 5.4D
NAME		DAT	≣		SCORE/10
	5.4D SI	kills and Co	ncepts 1		
1. There is a pat	tern in the graph be $ \begin{array}{c} $	low.			
	1 0 1 2	3 4 5 6 7 8 Input (a)	9 10 ×		
What rule des Describe how 2. The pattern in	cribes the pattern of you used the patter the table below is c	n the graph? n in the grap lescribed by a	n to find	the rul	e.
	-				
	Input v	21 24	<u> </u>	10 30	
What rule des Describe how	cribes the pattern? you used the patter	n in the table	to find t	he rule	

3. The pattern in the table below is described by a rule.

Input	С	3	4	5	6
Output	d	11	12	13	14

What rule describes the pattern? _____

Describe how you used the pattern in the table to find the rule.

4. The graph shows the relationship between the number of days, *d*, and the number of miles, *m*, Deanna rode her bicycle.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

5. The pattern in the graph represents the relationship between input, j, and output, k.



What rule describes the pattern on the graph? _____ = ____ + ____ Describe how you used the pattern in the graph to find the rule. STAAR Category 2

GRADE 5

SCORE ___/10

TEKS 5.4D

NAME_

5.4D Skills and Concepts 2

DATE

1. Katerina made the table below.

Input	x	5	6	7	8
Output	Y	20	24	28	32

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.

2. Julian made the table below.

Input	x	3	4	5	6
Output	y	9	10	11	12

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.

3. The pattern in the graph represents the relationship between input, p, and output, q.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

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Page 1

4. The pattern in the graph represents the relationship between input, j, and output, k.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

5. Mr. Thomas is a roofer who puts shingles on buildings. The table represents the relationship between the number of hours, *h*, and the number of shingle squares, s, he puts on a roof. The pattern in the table can be described by a rule.

Number of Hours, h	2	3	4	5
Number of Squares, s	5	7.5	10	12.5

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.

STAAR Category 2	GRADE 5	TEKS 5.4D
NAME	DATE	SCORE/10
5.4D	Skills and Concepts 3	
1. The pattern in the graph repres y 10 9 (x) 7 (x) $($	ents the relationship betwe	en input, j, and output, k.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

2. The table represents a pattern.

Input	V	7	8	9	10
Output	W	21	24	27	30

What rule describes the pattern? _____

Describe how you used the pattern in the table to find the rule.

3. The pattern in the graph represents the relationship between input, *a*, and output, *b*.



STAAR Category	2

What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

4. The graph shows the relationship between the number of weeks, *w*, and the number of books, *b*, Griselda read for a reading contest.

GRADE 5



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

5. Reggie made a table to represent a pattern.

Input	x	5	6	7	8
Output	y	20	24	28	32

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.

STAAR Category 2

NAME_

5.4D Skills and Concepts 4

1. Mr. Jeter is a photographer. The table represents the relationship between the number of hours, *h*, and the number of packages of pictures, *p*, he can process. The pattern in the table can be described by a rule.

Number of Hours, h	3	4	5	6
Number of Packages, p	12	16	20	24

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.

2. Nathan's mother plans to make muffins for a school party. The table below represents the relationship between the number of boxes of cake mix, *b*, and the number of dozen muffins, *m*, she can make. The pattern in the table can be described by a rule.

Number of	Number of
Boxes, b	Dozen Muffins, m
2	3
3	4.5
4	6
5	7.5

What rule describes the pattern? _

Describe how you used the pattern in the table to find the rule.

3. Lu created this table to represent a pattern.

Input	x	3	4	5	6
Output	Y	9	10	11	12

Describe how you used the pattern in the table to find the rule.

TEKS 5.4D

SCORE ___/10

GRADE 5

DATE

4. The pattern in the graph represents the relationship between input, p, and output, q.



What rule describes the pattern on the graph? _____ Describe how you used the pattern in the graph to find the rule.

5. Trevor created this table to represent a pattern.

Input	С	3	4	5	6
Output	d	11	12	13	14

What rule describes the pattern?

Describe how you used the pattern in the table to find the rule.



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 4 Geometry and Measurement



• From the origin, point *G* is located _____ units to the right and _____ units up. The ordered pair for point *G* is (_____, ____).

• From the origin, point *H* is located _____ units to the right and _____ units up.

The ordered pair for point *H* is (_____, ____).

So, point _____ is located at (8, 5).

3. What ordered pair describes the location of points A, B, and C?



- Point A is _____ units to the right of and _____ units above the origin.
 The ordered pair for point A is (_____ , ____).
- Point *B* is _____ units to the right of and _____ units above the origin.
 The ordered pair for point *B* is (_____ , ____).
- Point C is _____ units to the right of and _____ units above the origin.
 The ordered pair for point C is (_____ , ____).
- 4. What ordered pair describes the location of points R, S, and T?



• Point *R* is _____ units to the right of and _____ units above the origin.

The ordered pair for point *R* is (_____ , ____).

• Point *S* is _____ units to the right of and _____ units above the origin.

The ordered pair for point S is (_____ , ____).

• Point *T* is _____ units to the right of and _____ units above the origin.

The ordered pair for point T is (_____ , ____).

5. Which point is located at (0, 5)?



- From the origin, point *W* is located _____ units to the right and _____ units up. The ordered pair for point *W* is (_____, ____).
- From the origin, point *X* is located _____ units to the right and _____ units up. The ordered pair for point *X* is (_____, ____).
- From the origin, point *Y* is located _____ units to the right and _____ units up. The ordered pair for point *Y* is (____, ___).
- So, point _____ is located at (0, 5).



3. Some areas of an amusement park are represented on the grid.



- What ordered pair describes the location of the roller coaster? (_____, ____)
- What ordered pair describes the location of the carousel? (_____, ____)
- What ordered pair describes the location of the bumper cars? (_____, ____)
- What ordered pair describes the location of the log ride? (_____, ____)
- Explain how you found the ordered pair for the roller coaster.
- 4. The coordinates of 3 points are shown.

Point	X	У
A	2	4
В	4	6
С	6	8

Plot the points on the coordinate grid.



Explain how you decided to plot the location of Point *B*.

5. The coordinates of 3 points are shown.

Point	X	У
М	1	6
Ν	5	8
0	9	7

Plot the points on the coordinate grid.



Explain how you decided to plot the location of Point N.



|--|

The ordered pair for point *B* is (_____ , ____).

• Point *C* is _____ units to the _____ of and ____ units _____ the origin.

The ordered pair for point C is (_____ , ____).

• Point *D* is _____ units to the ______ of and ____ units _____ the origin.

The ordered pair for point D is (_____ , ____).

- 3. Point Z is 7 units to the right and 1 unit up from the origin.
 - What ordered pair describes point Z? (____, ___)
 - Explain how you know the ordered pair is correct.
- 4. Is the ordered pair (6, 2) the same as the ordered pair (2, 6)? _____
 - Explain how you know your answer is correct.
- 5. The instructions for plotting a point in a coordinate grid read "Start at the origin. Move right 8 units, then up 7 units."

What is the ordered pair that describes the location of the point? (_____, ____) Explain how you know your answer is correct.

ST/	AAR Category 3	GRADE 5	TEKS 5.8B
NAME		DATE	SCORE/10
	5.8B Skil	lls and Concepts	4
1.	Angelina used a number pattern to graphed the coordinate pair (3, 5). about the point she graphed.	graph a point on a Complete the follo	coordinate plane. She wing to make true statements
	is the distance of the point	from 0 on the verti	cal number line.
	is the distance of the point	from 0 on the horiz	ontal number line.
	is the input value from the	pattern.	
	is the output value from the	e pattern.	
	Explain how you know the statemer	nts are true.	

2. Jaylyn plotted a point on the coordinate plane that is 3 units to the right and 6 units up from the origin.



Which point on the coordinate plane did she plot? ______ Explain how you know your answer is correct.

3. Noah plotted a point on a coordinate plane to represent the ordered pair (2, 9). Complete the following to describe how he located this point on the coordinate plane.

Move _____ units to the ______ of the _____ and then

_____ units _____. Explain how you know your description is correct.

GRADE 5	TEKS 5.8B
a point on a coordinate plane to represen ollowing to describe how to locate this po	It the ordered pair (4, 6). Int on the coordinate plane.
ts to the of the	and then
Explain how you know your des	scription is correct.
Explain how you know your des	scription is correct.

5. Jon plotted a point on a coordinate plane to represent the ordered pair (2, 1). Complete the following to describe how to locate this point on the coordinate plane.

Move	units to the	of the	and then
------	--------------	--------	----------

_____ units _____. Explain how you know your description is correct.

ľ



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 5

Data Analysis

STAAR Category 4GRADE 5TEKS 5.9CNAMEDATESCORE/10

5.9C Skills and Concepts 1

1. This double bar graph shows the number of fifth grade boys and girls participating on several sports teams in the Texastown Little League.



Answer each question below. Record evidence to support your answer. An example of supporting evidence is shown after question 1.

Question 1: How many more boys than girls participate on the track team? Supporting Evidence: The bar representing the number of girls participating on the track team is at ______ and the bar representing the number of boys participating on the track team is at ______.

The difference between the two numbers is _____, therefore _____ more boys

than girls participate on the track team.

Question 2: What is the difference between the total number of girls playing sports and the total number of boys playing sports at Bush Middle School? Show your work.

Supporting Evidence:

Question 3: Which sport has the greatest difference in the number of girls or boys that participate on the teams? Show your work.

Supporting Evidence:

2. An amusement park asked fifth grade students to vote on their favorite ride at the park. The data was recorded in a frequency table.

Favorite Ride			
Ride Frequency			
Lazy River	11		
The Wave	19		
Tower Slide	17		
Log Ride	23		
Cave Slide	17		
Roaring Rapids	17		

- What is the difference between the frequency of votes for the log ride and the lazy river? Explain how you know your answer is correct.
- Which rides received an equal number of votes? ______
- What is the number of students that voted for Cave Slide and Roaring Rapids combined? _____ Explain how you know your answer is correct.
- 3. Jeffrey and his family took a long vacation to a national park. Jeffrey created a dot plot to represent the number of times a geyser erupted each day during the 23 days they stayed at the national park.



• Record the difference between the least number and the greatest number of times the geyser erupted in a day.



So, the difference between the least number and the greatest number of times the

geyser erupted in a day is _____.

_____+ _____ + _____ = _____

• Record the total number of days the geyser erupted 12, 14 or 16 times.

So, the total number of days the geyser erupted 12, 14 or 16 times is _____.

• Record the number of days the geyser erupted 1 or 2 times.

_____+ _____ + _____ = _____

So, the total number of days the geyser erupted 1 or 2 times is _____.

• Record the difference between the total number of days the geyser erupted an even number of times and the total number of days the geyser erupted an odd number of times.

_____ = _____

So, the total number of days the geyser erupted an even number of times and the

total number of days the geyser erupted an odd number of times is _____. Explain how you know your answer is correct.

4. Coach Beesley had fifth grade students sign up to compete in their favorite event for field day.

Fifth Grade Field Day Events			
Events Freque			
Baseball throw	12		
Spoon and egg relay race	52		
Water balloon toss	62		
Tow sack relay race	26		
Obstacle course	13		

• Which event did half as many students sign up for as the spoon and egg relay

race? _____ Explain how you know your answer is correct.

- Which events combined did fewer students sign up for than the tow sack relay race? ______ and _____ and _____ Explain how you know your answer is correct.
- Which events combined did fewer students sign up for than water balloon toss?

_____ and _____

- **GRADE 5**
- 5. Kendrick measured and recorded the height of ten of his cousins to the nearest inch. He created a stem-and-leaf plot to represent the data.

Height (in.)						
	Stem Leaves					
	4	5	7			
	5	0	2	3	6	
	6	0	6	8	9	
Key	': 4	5 r	epre	esen	ts 45	in.

What is the range of the heights of Kendrick's cousins? Explain how you know your answer is correct.

1.	High temperatures caused the number of sales of window air conditioner units to increase at a local hardware store. The table below shows the number of window air conditioners sold during days.								
	Air Conditioner Sales								
		Day	Number of Air Conditioners Sold						
		Monday	12						
		Tuesday	14						
		Wednesday	26						
		Thursday	34						
		Friday	38						
		Saturday	34						
	• The first column in th	ne table represe	ents the	of the					
	• The second column r	epresents the _	of						
	 The second data row The fifth data row sh This bar graph shows days. 	shows the har ows the hardwa s the	dware store sold are store sold of air conditior	air conditioners on air conditioners on hers sold during					
	42	Air C	onditioners Sold						
• T	42 34 90 26 18 10 10 Mon This symbol means the scale he broken line on the _	day Tuesday Wedr	nesday Thursday Friday Day	Saturday between 0 and are					
n	ot included.								
• T	he height of the bars ca	an be used to c	ompare the	of window air					

DATE____

conditioners sold each day during _____ days.

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TEKS 5.9C

GRADE 5

NAME___

STAAR Category 4

• Answer each question below. Record evidence to support your answer.

Question 1: How much did the number of air conditioners sold between Monday and Tuesday increase?

Supporting Evidence:

Question 2: Between which two days did the number of air conditioners sold not increase?

Supporting Evidence

Question 3: Which day was the greatest number of air conditioners sold? **Supporting Evidence**

2. Jason surveyed fifth grade students about the country they would most like to visit. He created a frequency table to show the data from his survey.

Countries to Visit						
Country	Frequency					
Canada	16					
China	23					
Iceland	7					
England	8					
Italy	19					

• Which two countries do the greatest number of students want to visit? ______ Explain how you know your answer is correct.

- Students will write a report on the country they chose. How many students will
 - write a report on the two countries the greatest number of students want to visit?

Explain how you know your answer is correct.

• Which two countries do the least number of students want to visit?

Explain how you know your answer is correct.

• How many students will write a report on the two countries the least number of students want to visit?

3. Mr. Garza recorded the spelling scores for his class on a data table, then he created a dot plot to represent the data.



• Record the difference between the lowest score and the highest score on the test.

_____ = _____

So, the difference between the lowest score and the highest score on the test is

Explain how you know your answer is correct.

• Record the number of students who scored 70-80 on the test.

_____+ _____ + _____ = _____

So, the number of students who scored 70-80 on the test is _____. Explain how you know your answer is correct.

Explain how you know your answer is correct.

• Record the number of students who scored 85-95 on the test.

_____+ _____+ _____ = _____

So, the number of students who scored 85-95 on the test is _____. Explain how you know your answer is correct.

• Record the difference between the number of students who scored 85-95 and the number of students who scored 70-80.



So, the difference between the number of students who scored 85-95 and the number of students who scored 70-80 is _____. Explain how you know your answer is correct.

4. The dot plot represents the test scores for a fifth grade science class.



What is the range of scores on the science test? ______ Explain how you know your answer is correct. 5. Clarissa created a stem-and-leaf plot to represent the distance she rode her new bicycle each week for 11 weeks. She decided to find the total number of miles she rode her bicycle during the weeks she rode more than 40 miles. Next month she plans to ride her bicycle twice as many miles as that total.

	Distance (miles)							
	Stem	Leaves						
	2	3	5	8				
	3	1	2	3	4	6		
	4	1	4	9				
Key: 2 0 represents 20 r) mi		

What is the number of miles Clarissa plans to ride her bicycle next month? ______ Explain how you know your answer is correct.

STAAR Category 4	GRADE 5	TEKS 5.9C		
NAME	DATE	SCOPE /10		

5.9C Skills and Concepts 3

 Houston Elementary honors a teacher each year as "Favorite Teacher of the Year". The students vote for this award. This year the votes were counted and the data was represented on a graph.



- How many students voted for the "Favorite Teacher " award? _____ My answer is correct because:
- How many more students voted for Mrs. Garcia than for Mrs. Lupe? ______ My answer is correct because:

• Which teachers received the same number of votes? ______ and

_____ My answer is correct because:

2. Emily asked people in her town how many miles they live from the closest gas station. She recorded her data in a frequency table.

Distance to Gas Station						
Distance	Number of					
(in miles)	People					
1.2	32					
1.8	20					
2.1	41					
2.4	18					
3.7	13					
4.1	9					

• How many people did Emily ask about the number of miles they live from the

closest gas station? _____ Explain how you know your answer is correct.

- How many people live less than 2 miles from the closest gas station? ______ Show your work.
- How many people live more than 2 miles from the closest gas station? _____ Show your work.
- How many people live 1.8 and 3.7 miles from the closest gas station? ______ Show your work.
- How many people live less than 2.4 miles from the closest gas station? ______ Show your work.
- How many people drive more than 8 miles from home to the closest gas station and back home? _____ Show your work.
- 3. Carla recorded the time she spent practicing her piano lessons. The dot plot represents the number of times she practiced different amounts of time.



• Record the difference between the least amount of time and the greatest amount of time Carla practiced.

So, the difference between the least amount of time and the greatest amount of time

is _____ hour.

Explain how you know your answer is correct.

• Record the number times Carla practiced $\frac{1}{2}$ hour or less.

_____ + _____ + _____ = _____

STAAR Category 4	GRADE 5	TEKS 5.9C
So the num	ber of times Carla practiced $\frac{1}{2}$ hour or less is	
Explain how	you know your answer is correct.	
Record the r	number of times Carla practiced $\frac{1}{2}$ hour or greater.	
	+ =	
So, the num	ber of times Carla practiced $\frac{1}{2}$ hour or greater is	
Explain how	you know your answer is correct.	
• Record the o	difference between the number of times Carla practiced les	s than $\frac{1}{2}$
hour and the	number of times she practiced greater than $\frac{1}{2}$ hour.	
	=	_
So, the diffe	rence between the number of times Carla practiced less th	an $\frac{1}{2}$ hour
and the num	The of times she practiced greater than $\frac{1}{2}$ hour is	

4. Veronica measured and recorded the heights of the tomato plants in her vegetable garden. She measured heights to the nearest whole inch. Then she created a stem-and-leaf plot to represent the data.

	Heights of Tomato Plants						
	Stem		L	eave	es		
_	1	1	3	8			
2		1	3	4	5	6	
	3	0	6				
Key: 1 1 represents 11 ir				1 in.			

Veronica bought a \$2 plant stake for each tomato plant that is taller than 25 inches.

What amount did she spend on plant stakes? ______ Explain how you know your answer is correct. 5. Mrs. Martinez made a dot plot to represent the six weeks math test scores for the students in her class.



How many more students received a score of 90 or less than received a score

greater than 90? _____ Explain how you know your answer is correct.

STAAR Category 4	GRADE 5	TEKS 5.9C

DATE

NAME_

5.9C Skills and Concepts 4

1. Students listed their "Favorite Sport to Watch" as a class project in speech class. They could list only one sport. The information they gave is shown on the graph below.



- How many students listed a "Favorite Sport " to watch? ______ Explain how you used the graph to find your answer.
- How many more chose baseball than chose soccer?_____ Explain how you used the graph to find your answer.
- Were any two sports chosen by the same number of students?______ Explain how you used the graph to find your answer.
- 2. The members a cross country track team are practicing for a meet. They practice running through the woods. The team coach recorded the distances they ran, then he made a frequency table to show the data.

Distance Ran During Practice					
Distance (in miles)	Number of Team Members				
1.1	8				
1.4	4				
1.8	11				
2.2	9				
2.6	3				

- How many team members ran more than 2 miles during practice? _____
- How many team members ran during practice? _____

SCORE /10

- How many more team members ran 1.1 miles and 2.2 miles than ran 1.4, 1.8, or 2.6 miles? _____
- 3. A fifth grade science team conducted a ball drop experiment. They created a scatterplot to represent the height of the ball when it was dropped and the height of the first bounce of the ball.



Complete the following to describe data on the scatterplot the science team made.

When the height the ball bounces is _____, the height the ball was dropped

from is _____.

Explain how you know the statements describes the data.

4. A school librarian created a stem-and-leaf plot to represent the number of books read by fifth grade students during a reading contest. Students who read more than 25 and less than 35 books were given a \$5 gift card to a book store. Students who read 35 books or more were given a \$10 gift card to a book store.

Reading Contest Data

	Stem					Leaf	-			
	1	3	4	4	6	9				
	2	1	1	2	3	4	6	7	8	8
	3	0	2	2	4	5	7			
	4	1	2	3						
Kev	/: 1	3 r	3 represents 13 books							

What is the total value of the gift cards given to fifth grade students? ______ Explain how you know your answer is correct. 5. The dot plot below represents the different amounts of whole wheat flour a baker mixed into the loaves of bread she made on Thursday.



Whole Wheat Flour

What is the total amount of whole wheat flour she used to make all of the loaves of

bread? _____ Explain how you know your answer is correct.



GRADE 5 Open-Ended Skills and Concepts

TEKS CATEGORY 6 Personal Financial Literacy

STAAR Category 4

GRADE 5

DATE

TEKS 5.10E

NAME_

5.10E Skills and Concepts 1

1. Dora's budget for the month of May is shown below.

May Budget					
Income	Expense				
Allowance: \$25	Cell Phone: \$18				
Babysitting: \$20	Movie Rentals: \$12				
	Books: \$20				

In June, Dora plans to get a new cell phone plan that costs \$30 per month. She can increase her income from babysitting to \$25 per month. She would like to continue renting movies and buying books. What are two different things Dora can do to keep a balanced budget?

- 2. Serena's expenses are greater than her income. What must Serena increase to be able to balance her budget?
- 3. The Lee family's monthly income is \$3,200. They budget \$1,100 for rent, \$725 for food, \$400 for utilities, \$375 for transportation, \$300 for savings, \$200 for education, and \$250 for miscellaneous expenses. What are two different things the Lee family can do to balance their budget?
- 4. Cole made a budget for May.

May Budget						
Income	Expense					
Allowance: \$36	Entertainment: \$12					
Yard work: \$10	Savings: \$20					
	New swim trunks: \$18					

What are two different things Cole can do to balance his budget?

5. Reese made a budget to keep track of her money for April.

April Budget		
Income	Expense	
Allowance: \$28	Stationery: \$9	
Tutoring: \$18	Savings: \$15	
	Photography Supplies: \$27	

What are two different things Reese can do to balance her budget?

Page 1

SCORE ___/10

STAAR Category 4	GRADE 5	TEKS 5.10E

NAME

DATE_____ 5.10E Skills and Concepts 2

SCORE ___/10

1. Angelina's net income is \$28,000 per year. She would like to have a balanced budget. If her other expenses are three-fourths as much as her income, how much can she save each year? Show your work on notebook paper to find the answer.

Explain how you know your answer is correct.

2. Tatiana's budget for the month of April is shown below.

April Budget				
Income	Expense			
Allowance: \$40	Meals with friends : \$35			
House cleaning: \$25	Acting class: \$15			
	Sports equipment: \$25			

Tatiana would like to buy soccer shoes that are on sale for \$30. She will use her sports equipment budget for part of the cost. What can Tatiana do to have a balanced budget?

- 3. Xavier earned \$50 each day for five days this week. His weekly expenses are \$280. How can he balance his budget?
- 4. Eliza's budget for the month of February is shown below.

February Budget			
Income	Expense		
Allowance: \$40	Meals with friends : \$35		
House cleaning: \$25	Acting class: \$15		
	Sports equipment: \$25		

What changes can Eliza make to balance her budget?

5. Darwin works at a grocery store sacking groceries. He earns \$12 per hour after taxes and works 24 hours each week. His weekly expenses total \$324. How many more hours would Darwin need to work to balance his budget? Show your work on notebook paper to find the answer.

Explain how you know your answer is correct.

Fel