

1. Mr. Einstein asked four students to write a number on an index card. Circle the card which does not show an integer.

Shay

-45

Keesha

$3\frac{2}{3}$

Kim

256

Lynne

-13


TEKS 7.2A

2. Ernest earned \$1,545 in gross wages last month. Federal income tax was calculated at 15% and then deducted from his gross wages. What was Ernest's net pay last month?

Net Pay: \_\_\_\_\_

TEKS 7.13A

3. A leaky faucet is dripping at a constant rate. After 15 minutes, two gallons of water were collected from the leak.



Identify the constant rate. \_\_\_\_\_

How many gallons of water will be collected after  $1\frac{1}{2}$  hours?

Solution: \_\_\_\_\_

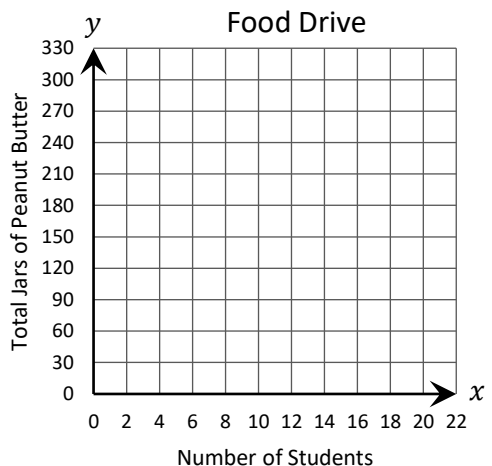
TEKS 7.4D

4. The local food pantry has initiated a food drive. Six students brought 90 jars of peanut butter to the food pantry. Assume each student brought the same number of jars. Based on this rate, complete the projection table and graph the data.

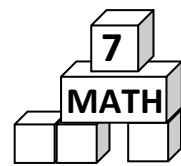
Food Drive

Number of Students, $x$	6	10	13	16	20
Number of Jars, $y$	90				

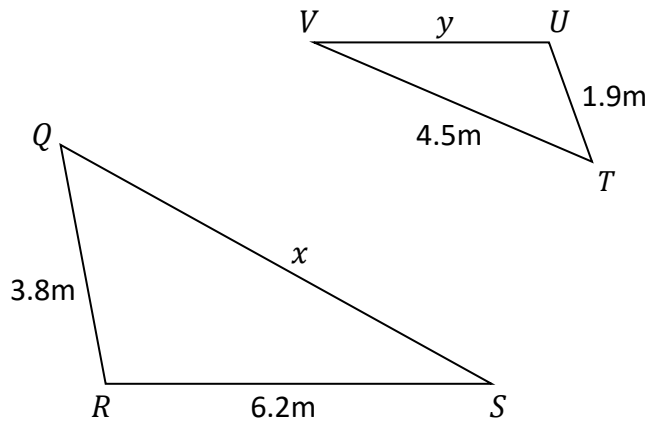
Food Drive



TEKS 7.4A



1.  $\triangle QRS \sim \triangle TUV$ . Determine the missing side lengths.

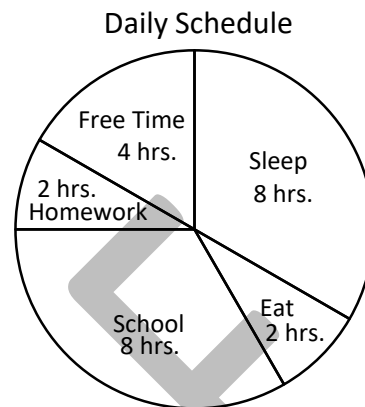


$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

TEKS 7.5C

2. Gina graphed the number of hours she spends on each activity during a weekday.



Approximately what percent of her day is spent at school and doing homework?

Solution: \_\_\_\_\_

TEKS 7.6G

3. A jar contains 6 chocolate chip cookies, 2 oatmeal cookies, and 4 peanut butter cookies. What is the complement of choosing a peanut butter cookie if a cookie is drawn at random from the jar?



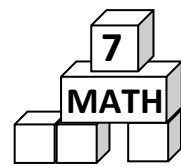
Solution: \_\_\_\_\_

TEKS 7.6E

4. A spinner with four equal spaces has the colors red, green, blue and yellow. A set of five number tiles are numbered 1-5. Create a sample space showing the different combinations of spinning the spinner and drawing a number tile at random.

SAMPLE SPACE

TEKS 7.6A



1. Mr. Garcia wrote the following problem on the board.

$$10.50x + 20 = 74.50$$

Which situation corresponds to the equation on the board?

A. Patrick had \$10.50. He saved \$20 each week until he had \$74.50. How many weeks did he save money?

B. Michelle received a \$20 tip and makes \$10.50 an hour. How many hours did she work if she earned \$74.50?

C. A rope was 74.50 meters long. Daniel cut 10.5 meter sections from the rope until he had 20 pieces of rope. How many cuts did he make on the rope?

TEKS 7.10C

2. Janice filled her reptile terrarium  $\frac{3}{8}$  of the way full with sand for her pet snake. Determine the volume of sand in the terrarium to the nearest cubic foot.

Volume \_\_\_\_\_

TEKS 7.9A

3. Coach Cruz drew a circle with a diameter of 11 feet on the cement for an agility drill. Determine the area of the circle to the nearest hundredth of a square foot.

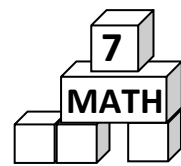
Area \_\_\_\_\_

TEKS 7.9B

4. Matthew is 5 feet 6 inches tall and casts a 3-foot shadow at the same time that a tree casts a 24-foot shadow. How tall is the tree?

Solution: \_\_\_\_\_

TEKS 7.5C



14. The Feed Store sells assorted brands of horse feed. Which brand sells for the highest unit rate?

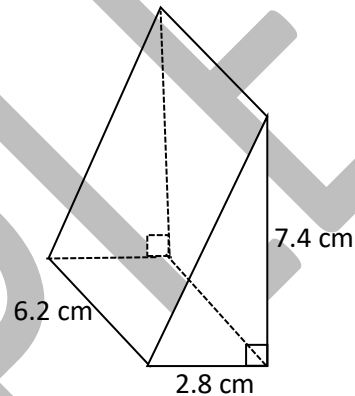
- F. Brand A
- G. Brand B
- H. Brand C
- J. Brand D

Horse Feed	Number of Pounds	Cost
A	25	\$24.65
B	50	\$125
C	30	\$74.70
D	40	\$80

TEKS 7.4B

15. Determine the volume of the prism.

- A.  $64.23 \text{ cm}^3$
- B.  $128.46 \text{ cm}^3$
- C.  $42 \text{ cm}^3$
- D.  $41.28 \text{ cm}^3$



TEKS 7.9A

16. Alex's monthly budget is shown below.

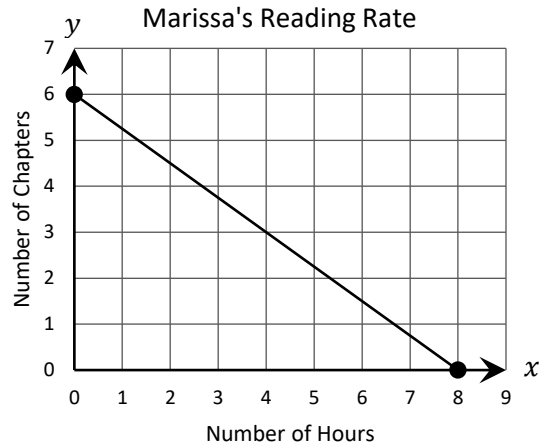
Alex's Monthly Budget	
Rent/Utilities	\$750
Food	\$325
Car/Gas	\$250
College Loan	\$300
Entertainment	\$225

What percent of Alex's budget is allocated to pay rent and his college loan, rounded to the nearest whole percent?

- F. 16%
- G. 50%
- H. 41%
- J. 57%

TEKS 7.13B

16. Marissa must read 6 chapters to finish a novel. Her reading progress is shown on the graph below.

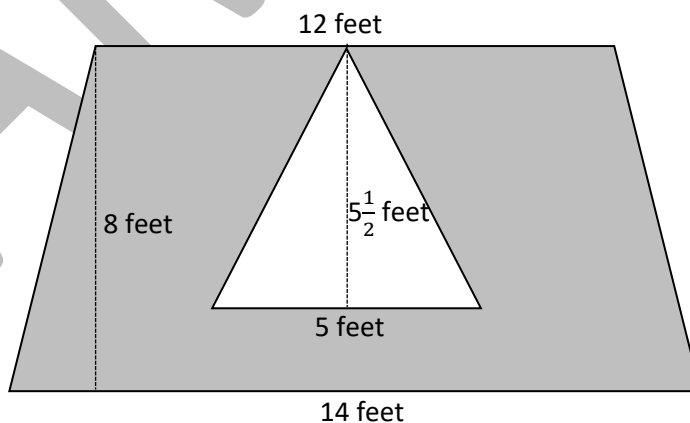


What is Marissa's reading rate in chapters per hour?

- F. Marissa finished  $\frac{3}{4}$  of one chapter per hour.
- G. Marissa finished 1 chapter per hour.
- H. Marissa finished 4 chapters in 3 hours.
- J. Marissa finished 2 chapters in 2 hours.

TEKS 7.4A

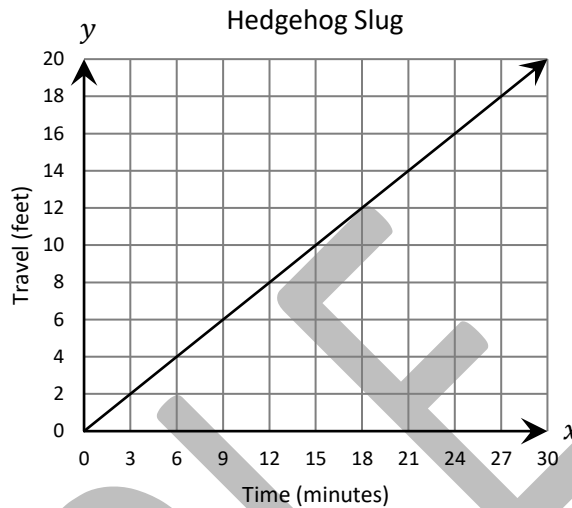
17. The figure was created using a parallelogram and an isosceles triangle. Find the area of the shaded region to the nearest square foot.



- A. 13.75 feet<sup>2</sup>
- B. 117.75 feet<sup>2</sup>
- C. 104 feet<sup>2</sup>
- D. 90.25 feet<sup>2</sup>

TEKS 7.9C

9. The distance traveled by a hedgehog slug over a 30-minute time period is graphed below. What is the constant of proportionality,  $k$ , of the hedgehog slug's travel in feet per minute?

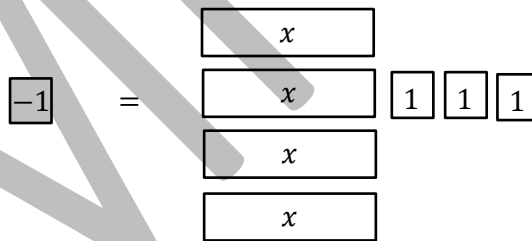


- A.  $k = \frac{3}{2}$
- B.  $k = \frac{1}{1}$
- C.  $k = \frac{2}{3}$
- D.  $k = \frac{1}{3}$

TEKS 7.4C

10. The equation  $-1 = 4x + 3$  is modeled below. Solve for  $x$ .

- F.  $x = 1$
- G.  $x = \frac{1}{2}$
- H.  $x = 0$
- J.  $x = -1$



TEKS 7.11A

11. A building casts a shadow of 5.4 meters at 1:00 PM. A tree that is 7.2 meters in height casts a shadow of 3.6 meters at the same time. What is the actual height of the building measured in meters?

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

					.		
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9



TEKS 7.5C