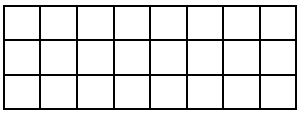
1. The Baker family is hosting a family reunion. Mrs. Baker bought 7 packages of hamburger patties, each containing 10 patties. She bought 9 packages of buns, each containing 8 buns. How many more buns does Mrs. Baker have than patties?

$$9 \cdot 8 - 7 \cdot 10$$

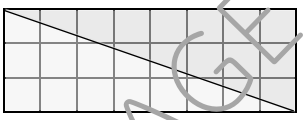
Solution: _____

TEKS 6.7A

2. The formula for finding the area of a rectangle is $A = bh$. The area of the rectangle is 24 square units. $A = 8 \cdot 3$



If a diagonal cut is made on the original rectangle, two congruent triangles are created.



What is the area of each triangle?

_____

The formula for finding the area of a triangle is $A = \frac{1}{2}bh$. Why does this formula work?

Solution: _____

_____

TEKS 6.8B

3. Mr. King's students missed 50% of the class period due to a fire drill. Write 50% as a decimal and simplified fraction.

Percent	Decimal	Simplified Fraction
50%		

TEKS 6.4G

4. Will the product be larger, smaller, or equal to the whole number factor, 4?

$4 \times \frac{9}{8}$

- ○ larger
- ○ smaller
- ○ equal

$4 \times \frac{15}{15}$

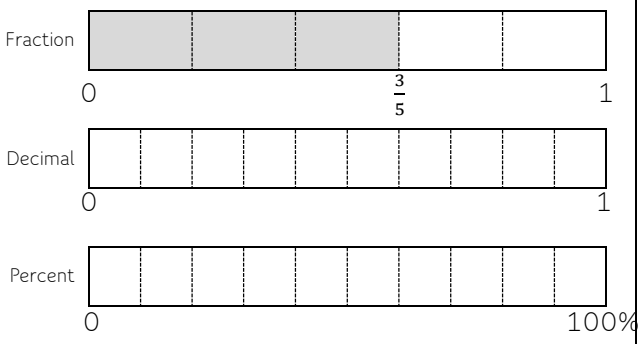
- ○ larger
- ○ smaller
- ○ equal

$4 \times \frac{7}{8}$

- ○ larger
- ○ smaller
- ○ equal

TEKS 6.3B

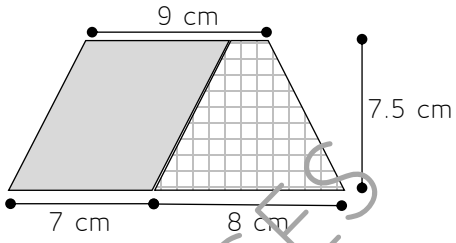
1. Ruben ate $\frac{3}{5}$ of a pepperoni pizza. What percent of the pizza did Ruben eat?



Ruben ate _____ of the pepperoni pizza.

TEKS 6.5B

2. Mr. Smith is designing a mural using tiles. Write an equation to determine the area of the following:



- the large trapezoid _____
- the small parallelogram _____
- the small trapezoid _____

TEKS 6.8D

3. Complete the prime factorization of 64.

Write the prime factorization of 64, using exponents, if needed.

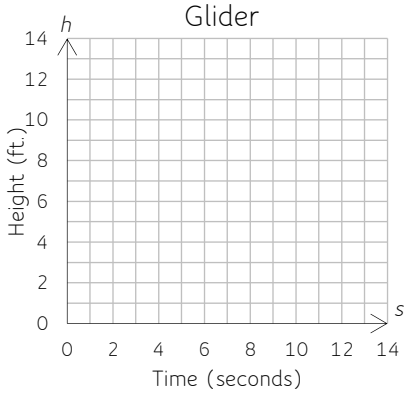
Solution: _____

TEKS 6.7A

4. A glider was dropped from a height of 12 feet. It descended at a rate of 1 foot per second. Complete the table and graph the points to show the relationship between *h*, the height of the glider, and *s*, the number of seconds.

Glider

Time (seconds), *s*	0	1	3	5	12
Glider Height (ft.), *h*	12				



TEKS 6.6C

1. Part of a prime factorization for the number 84 is shown. One factor is missing.

$$2^2 \cdot 3 \cdot \_\_\_$$

What number completes this prime factorization?

Enter your answer in the box.

TEKS 6.7A

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2. Describe the relationship between x and y in the equation $y = 4x$.

Choose the correct answer from each drop-down menu to complete the statement.

The relationship is _____ because the value of y is _____ the value of x.

- ☐ additive
- ☐ multiplicative

- ☐ 4 times
- ☐ 4 more than

TEKS 6.4A

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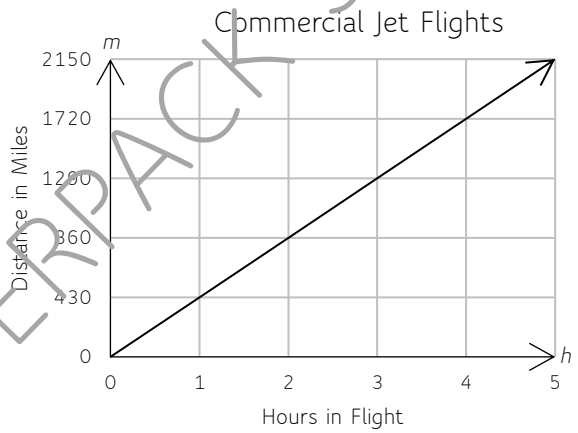
3. The distance a commercial jet flies depends on the length of the flight in hours. The graph shows this relationship.



Which equation shows the relationship between the miles traveled, m, and the number of hours in flight, h?

Ⓐ $h = 430m$

Ⓑ $m = 430h$

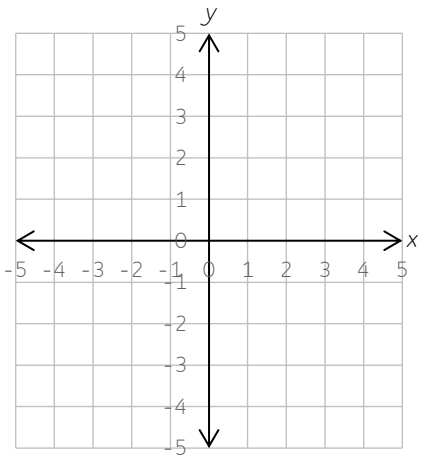
Ⓒ $h = m + 430$

Ⓓ $m = h + 430$

TEKS 6.6C

1. Graph the points.

A (4, 2)
B (−4, −2)
C (−4, 2)
D (4, −2)



Which point is located 4 units to the left of the origin and 2 units below the *x*-axis?

_____

TEKS 6.11A

2. The table shows the number of band members from high schools competing in a contest.

High School Bands

81	90	76	83	92	70
89	74	65	93	95	87
85	64	92	71	88	78
76	92	79	84	67	89

Represent the data in a stem-and-leaf plot.

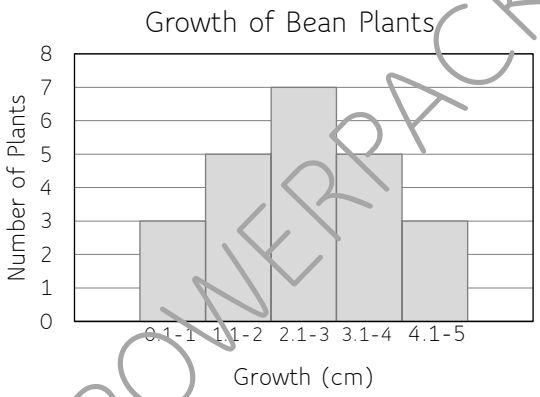
High School Bands

Stem	Leaf

Key:

TEKS 6.12A

3. The growth of bean plants is shown in the histogram.



Is the data symmetrical? _____

Based on the shape of the data, in which category should the mean and median be located?

_____

TEKS 6.12B

4. The circle graph shows the hair color of students in one first grade classroom.

What percent of the students have brown hair?

Solution: _____

TEKS 6.5B

1. A consultant prepared the table to show earnings, *e*, based on the number of hours worked, *h*.

Earnings

Number of Hours Worked, *h*	Total Earnings (dollars), *e*
2	1,250
5	3,125
8	5,000
10	6,250

Write an equation that represents the relationship between total earnings, *e*, and the number of hours worked, *h*.

Equation: _____

TEKS 6.6B

2. The number of times students asked questions during a seminar is summarized below.

Questions Asked

Stem	Leaf
0	0 0 1 1 2 2 2 6 8 9
1	0 1 4 6
2	0 2 2 5
3	3

Key: 1|6 = 16 questions

Based on the data, identify the following.

Median	
Mode	
Range	

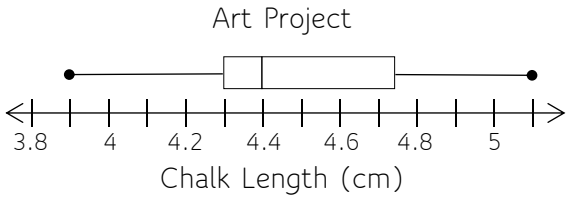
TEKS 6.12C

3. The United States Postal Service employs approximately 500,000 people. Which of the conditions would be variable from one year to the next? Check either yes or no for each factor.

	Yes	No
The zip code assigned to a location.		
The price of a stamp.		
The number of packages delivered during a holiday season.		

TEKS 6.13B

4. Mrs. Young measured the lengths of pieces of chalk after the sidewalk art project was complete. She summarized the data in a box plot.



What percent of the pieces measured from 4.3 centimeters to 4.75 centimeters? _____

What percent of the pieces measured more than 4.4 centimeters? _____

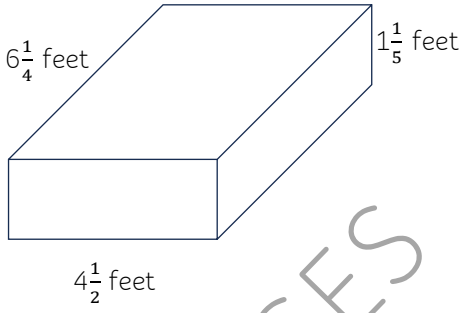
TEKS 6.13A

1. Sandra wrote an expression that is equivalent to (42 + 6) ÷ 8. Decide which expression(s) are equivalent to (42 + 6) ÷ 8.

	Yes	No
48 ÷ 4 · 2	☐	☐
(2 · 2 · 2 · 2 · 3) ÷ (2 · 2 · 2)	☐	☐
(42 - 6) · 8	☐	☐

TEKS 6.7A

2. The dimensions of the right rectangular prism are shown in feet.



What is the area of the rectangle prism in cubic feet?

Enter your answer in the box.

TEKS 6.8D

3. Two variable models are shown.

m = ☐ *n* = ☐

Two expressions are modeled.

$2m + 3n$

m	*m*	*n*	*n*	*n*

$3m + 2n$

m	*m*	*m*	*n*	*n*

The two modeled expressions are _____ because the expressions 2m + 3n is

- ☐ not equivalent
- ☐ equivalent

_____ to the expressions of 3m + 2n.

- ☐ greater than
- ☐ equal
- ☐ less than

TEKS 6.7C