1. A teacher recorded the averages of her students in a stem-and-leaf plot.

Student Averages

Stem	Leaf
5	4
6	6 8 9
7	0 0 2 3 4 6 8
8	0 2 4 5 5 5 7 9
9	0 1 2 3 4 5 8 8
10	0

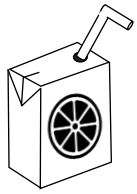
Key: 8 | 2 = 82%

What percent of the students have an average higher than 84%?

Solution: _____

TEKS 6.13A

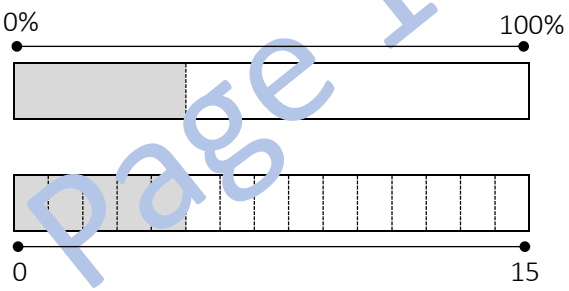
2. A fruit drink is 8% orange juice. Write the percent as a simplified fraction and decimal.



Fraction	Decimal

TEKS 6.4G

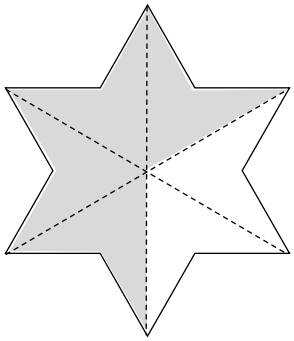
3. Five of the fifteen rides at the park have a height requirement of 48 inches. What percent of the rides have this height requirement?



Solution: _____

TEKS 6.5B

4. Name the shaded region in three equivalent forms.



Fraction	Decimal	Percent

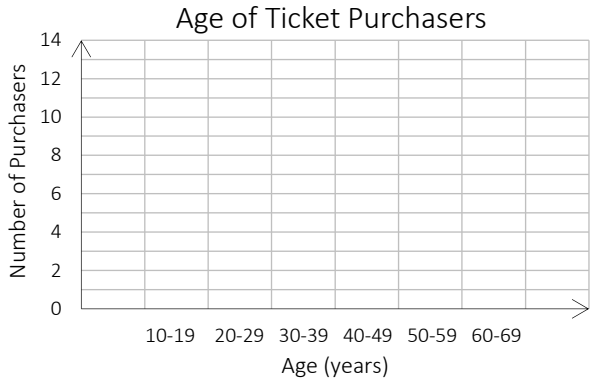
TEKS 6.5C

1. The table shows the ages of individuals purchasing movie tickets at the theater in a 5-minute time span.

Age of Ticket Purchasers

15	16	18	32	40	51
10	14	18	17	35	45
56	57	60	11	13	15
18	24	28	36	42	13

Represent the data in a histogram.



TEKS 6.12A

2. Complete the prime factorization of 225.

Write the prime factorization using exponents, if needed.

Solution: _____

TEKS 6.7A

3. What is the value of the expression?

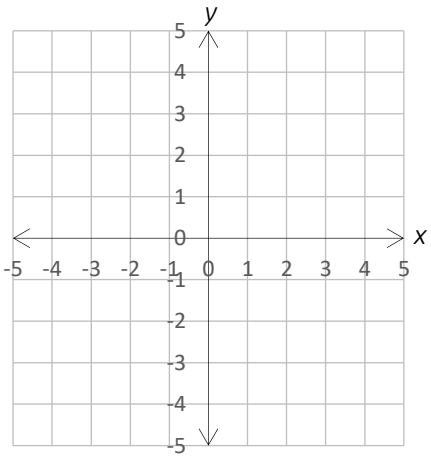
$$8 - (-3) + 33 \div (-3)$$

Solution: _____

TEKS 6.3D

4. Graph the points.

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

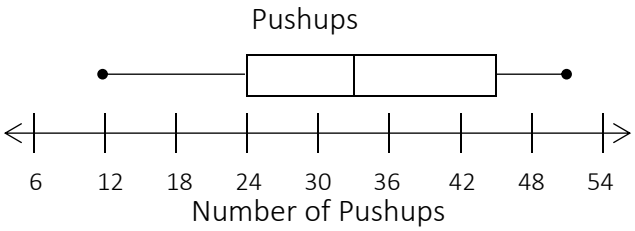


Which point is located 4 units to the left of the origin and 2 units below the x-axis?

_____

TEKS 6.11A

1. Students recorded the number of pushups completed in a two-minute time span. The box plot shows a summary of the results.



Is the data symmetrical? _____

Identify the following.

Range	
Interquartile Range	
Median	

TEKS 6.12C

2. Five numbers are shown below. Write the values in order from least to greatest.

$$-\frac{7}{4} \quad -2 \quad 1 \quad \frac{9}{8} \quad 0$$

_____ , _____ , _____ , _____ , _____

TEKS 6.2D

3. An inequality is shown below.

$$x + -19 \geq 7$$

The table lists possible values for x. Check yes or no if the value makes the inequality true.

Value	Yes	No
−21		
25		
7		
−8		
21		

TEKS 6.10B

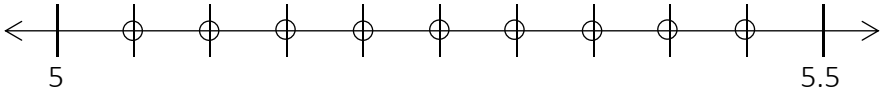
4. Bruce is a tennis player. He has worked to earn $1,250 to purchase a tennis ball machine and racquet. The new racquet costs $120. Use the inequality below to find how much Bruce can afford to spend on the tennis ball machine, m. Show the solution on the open number line.

$$120 + m \leq 1{,}250$$

TEKS 6.9B

13. Which point on the number line represents $5\frac{1}{4}$ on the number line.

Select **ONE** location on the number line to plot the point.



TEKS 6.2C

14. 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.

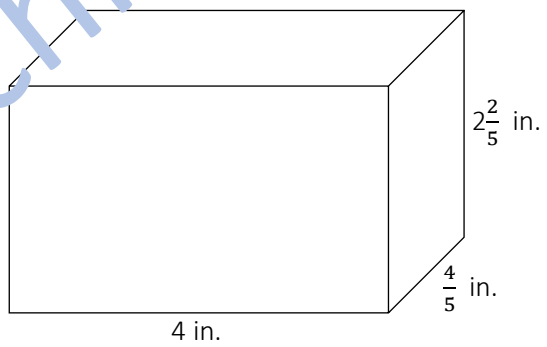
The relationship is _____ because the value of *y* is _____ the value of *x*.

- ☐ additive
- ☐ multiplicative

- ☐ 4 times
- ☐ 4 more than

TEKS 6.4A

15. A right rectangular prism has the dimensions shown.



What is the volume of the prism in cubic inches?

Enter your answer in the box.

TEKS 6.8D

23. The calendar shows the high temperatures (in degrees Fahrenheit) for San Antonio, Texas during the first ten days of June 2022.

June 2022

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1 91°	2 86°	3 91°	4 93°
5 95°	6 95°	7 95°	8 95°	9 93°	10 95°	11
12	13	14	15	16	17	18

Which statements are supported by the data in the calendar?

Select TWO correct answers.

- ☐ The mode temperature was 95°F.
- ☐ The median temperature was 94°F.
- ☐ The temperature range was 10°F.
- ☐ The mean temperature was 94°F.

TEKS 6.12C

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24. Which situation could be represented by the equation $17x \leq 314.5$?

Ⓐ Mary's family drove 314.5 miles to visit family. If they stopped for lunch, and spent $17 for the meal, how much money, *x*, does Mary's family have now?

Ⓑ Seventeen students went on a field trip. Each student was given a money amount for the trip. The group will spend a minimum amount of $314.50. How much is *x*, the spending amount given to students?

Ⓒ Macy has a budget of $314.50. If she purchases 17 shirts at the same price per shirt, what is *x*, the maximum amount she can pay per shirt?

Ⓓ None of the above.

TEKS 6.9C