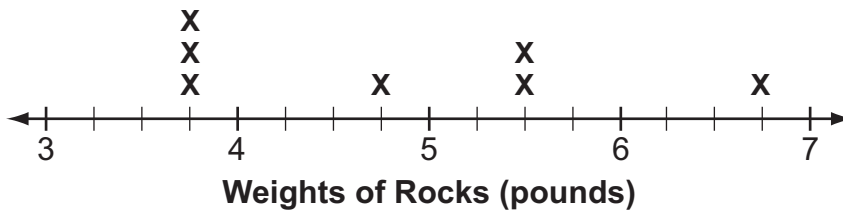


- 1** A truck is carrying a shipment of 375 identical boxes. Each box weighs 27 pounds. What is the weight of all of the boxes in the shipment?

Ⓐ 9,125 pounds
Ⓑ 9,625 pounds
Ⓒ 10,095 pounds
Ⓓ 10,125 pounds

- 2** What is the value of the expression $2.4 \times 0.3 \times 1.5$?
- _____

- 3** The line plot shows the weights of rocks Jim has collected for a science project.



How many pounds greater is the weight of his heaviest rock than the weight of his lightest rock?

- 4** What is the value of the expression $\frac{1}{4} \times (4 + 6 \times 2)$?

Ⓐ 4 Ⓒ 13
Ⓑ 5 Ⓓ 14

- 5** Which expression has a value that is less than $\frac{3}{7}$?

- Ⓐ $\frac{3}{7} \times \frac{3}{7}$
- Ⓑ $\frac{3}{7} \times \frac{7}{3}$
- Ⓒ $\frac{3}{7} \times \frac{3}{3}$
- Ⓓ $\frac{3}{7} \times \frac{7}{7}$

- 6** Meredith bought $\frac{3}{4}$ yard of fabric to make a pillowcase. When she was finished, she had $\frac{1}{8}$ of the fabric left over. How many yards of fabric were left over?

- Ⓐ $\frac{3}{32}$ yard
- Ⓑ $\frac{5}{8}$ yard
- Ⓒ $\frac{7}{8}$ yard
- Ⓓ $\frac{29}{32}$ yard

- 7** What is the unknown value in the equation?

$$\frac{2}{3} + \frac{5}{6} + \frac{\square}{4} = \frac{27}{12}$$

- Ⓐ 3
- Ⓑ 9
- Ⓒ 20
- Ⓓ 27

- 8** Select **all** the expressions that have a value of 26.

- Ⓐ $484 \div 22$
- Ⓑ $546 \div 21$
- Ⓒ $494 \div 19$
- Ⓓ $624 \div 24$
- Ⓔ $468 \div 26$

- 9** Select **all** the expressions that are equivalent to $32 \times 10,000$.

- Ⓐ $320 \times 1,000$
Ⓑ $3,200 \times 1,000$
Ⓒ $32,000 \times 10$
Ⓓ $32 \times 1,000$
Ⓔ $32,000 \times 100$

- 10** Lena bought 14.4 feet of blue streamers and 2.25 feet of yellow streamers for a party.

Part A

How many more feet of blue streamers than yellow streamers did Lena buy?

Part B

Lena decided to buy 8.5 feet of red streamers. What is the total length of all of the streamers she bought?

- Ⓐ 14.15 feet
Ⓑ 17.5 feet
Ⓒ 25.15 feet
Ⓓ 45.4 feet

- 11** Christine is making tomato sauce. The recipe calls for $2\frac{1}{2}$ pounds of tomatoes. She has only $1\frac{1}{8}$ pounds of tomatoes. How many more pounds of tomatoes does she need to make the sauce?

- Ⓐ $1\frac{1}{8}$ pounds
Ⓑ $1\frac{1}{4}$ pounds
Ⓒ $1\frac{3}{8}$ pounds
Ⓓ $1\frac{1}{2}$ pounds

- 12** The number of people who live in city A is given by the expression $4.26 \times 100,000$.

The number of people who live in city B is given by the equation $5.3 \times \square = 5,300,000$.

Part A

How many places to the right should the decimal point be moved to find the population of city A?

- Ⓐ 3 Ⓒ 5
Ⓑ 4 Ⓓ 6

Part B

What is the unknown number in the equation for the population of city B?

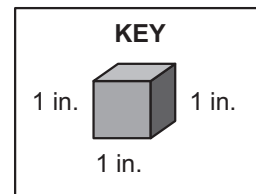
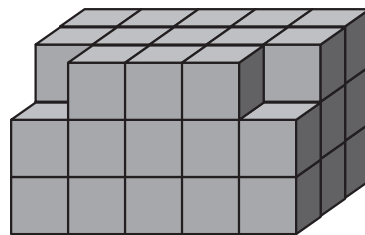
- 13** Out of all of the cars in a parking lot, $\frac{3}{5}$ are black. Out of all the black cars, $\frac{1}{10}$ are convertibles. What fraction of the cars in the parking lot are black convertibles?

- Ⓐ $\frac{1}{50}$
Ⓑ $\frac{3}{50}$
Ⓒ $\frac{3}{10}$
Ⓓ $\frac{7}{10}$

- 14** Place an X in the table to show the inequality sign that correctly compares each pair of decimals.

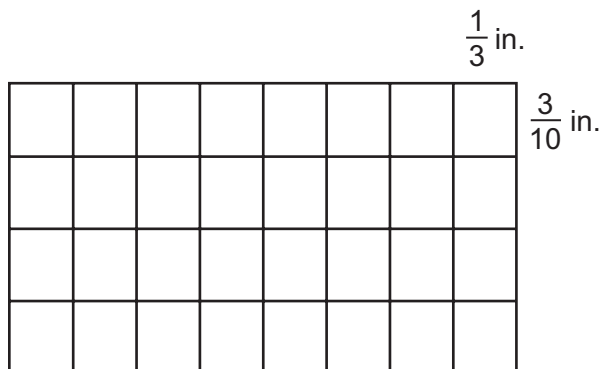
			<	>
0.23		0.169		
7.4		7.14		
5.06		5.62		

- 15** What is the volume of the figure shown below?



- Ⓐ 45 in.³ Ⓒ 41 in.³
Ⓑ 43 in.³ Ⓓ 39 in.³

- 16** What is the area of the rectangle shown below?



17 Derek has 27 ounces of colored sand. He pours an equal amount of sand into 7 jars. How many ounces of sand are in each jar?

- Ⓐ 3 ounces
- Ⓑ $3\frac{3}{7}$ ounces
- Ⓒ $3\frac{6}{7}$ ounces
- Ⓓ 4 ounces

18 Last week, the local supermarket sold 107 cases of muffins. Each case contains 12 boxes of muffins. How many boxes of muffins were sold?

19 How many unit cubes would fit inside a rectangular prism that is 9 units long, 5 units wide, and 7 units tall?

- Ⓐ 21 cubic units
- Ⓑ 45 cubic units
- Ⓒ 315 cubic units
- Ⓓ 343 cubic units

20 Rosario has a box in the shape of a rectangular prism that has a length of 8 feet, a width of 1 foot, and a height of 6 feet. Which of the following could be the dimensions of a box with the same volume as Rosario's box?

Select **all** the correct box dimensions.

- Ⓐ $1 \times 12 \times 4$
- Ⓑ $8 \times 5 \times 8$
- Ⓒ $2 \times 6 \times 4$
- Ⓓ $3 \times 16 \times 2$
- Ⓔ $4 \times 3 \times 4$

- 21** What is the missing number in the equation $9.1 \times \square = 0.91$?

(A) 0.001 (C) 0.1
(B) 0.01 (D) 1

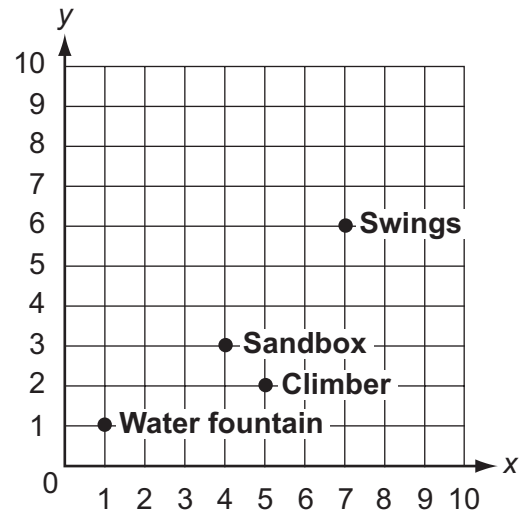
- 22** Carlos writes this pattern following a rule.

3, 7, 19, 55

Which expression could be the rule Carlos used to write his pattern?

(A) $2x + 1$
(B) $2x - 1$
(C) $3x + 2$
(D) $3x - 2$

- 23** A map of a park is graphed on the coordinate plane below.



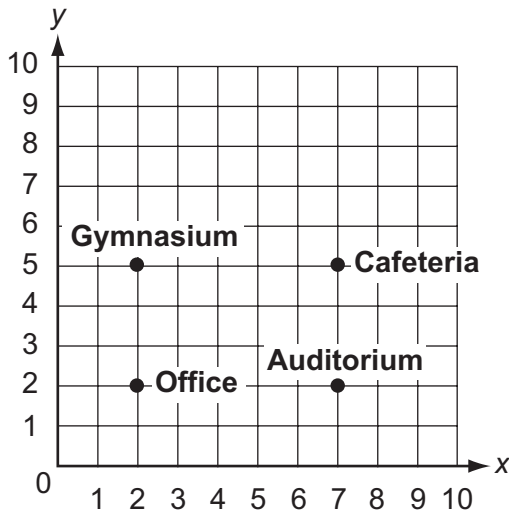
What is the location of the climber?

(A) (2, 5)
(B) (3, 4)
(C) (4, 3)
(D) (5, 2)

- 24** Which shape is always a parallelogram?

Ⓐ quadrilateral Ⓒ trapezoid
Ⓑ rhombus Ⓓ triangle

- 25** A map of a school is graphed on the coordinate plane below.



What is the location of the auditorium?

Fill in the blanks with numbers from the list to write the correct ordered pair.

(____, ____)

0	2	3	5	7	9
---	---	---	---	---	---

- 26** A square could be classified as which of the following shapes?

Select **all** that apply.

Ⓐ parallelogram
Ⓑ quadrilateral
Ⓒ rectangle
Ⓓ rhombus
Ⓔ triangle

- 27** A principal has 900 boxes of paper clips to distribute equally to the 36 homeroom teachers in his school. How many boxes of paper clips does each teacher receive?

Ⓐ 18
Ⓑ 25
Ⓒ 30
Ⓓ 36

- 28** Which expression represents the phrase "4 less than the product of 7 and 5"?

Ⓐ $4 - 7 \times 5$

Ⓑ $4 - 7 \div 5$

Ⓒ $7 \times 5 - 4$

Ⓓ $7 \div 5 - 4$

- 29** Fill in the table to round each decimal to the nearest tenth.

Decimal	Rounded to the Nearest Tenth
3.12	
6.481	
7.025	
8.98	

- 30** Monica has $7\frac{1}{4}$ pounds of peanuts and 4 ounces of almonds. How many ounces of nuts does she have?
- _____

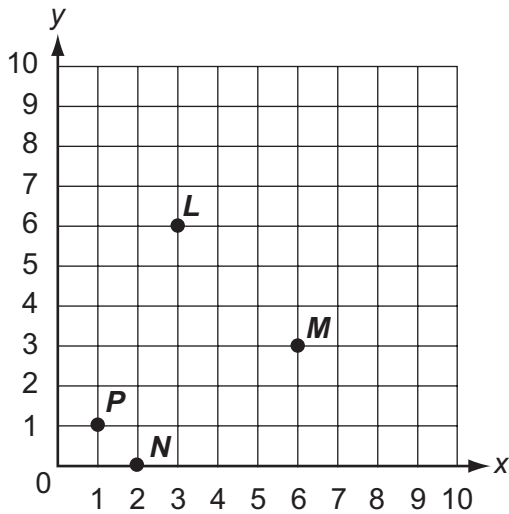
- 31** A rectangular prism with a height of 2 units has a volume of 24 cubic units. What could the other dimensions of the prism be?

Fill in the blanks with the correct numbers from the list to show the possible width and length of the prism.

The width and the length of the prism could be _____ units and _____ units.

3	4	5	6	8	12
---	---	---	---	---	----

- 32** Some points are plotted on the coordinate plane shown below.



What are the coordinates of point *M*?

- Ⓐ (3, 6)
- Ⓑ (3, 3)
- Ⓒ (6, 3)
- Ⓓ (6, 6)

- 33** Harry buys 2.25 pounds of salad at a salad bar. The salad costs \$1.84 per pound. How much does Harry's salad cost?

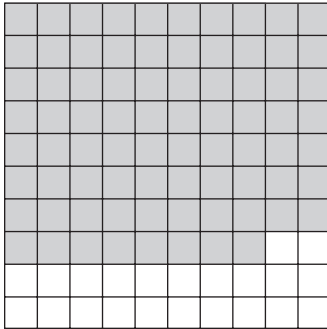
\$ _____

34 Maria's younger sister has a set of building blocks. In the set, $\frac{1}{3}$ of the blocks are cubes, and $\frac{2}{7}$ of the blocks are pyramids.

- Maria said that $\frac{3}{10}$ of the blocks are either cubes or pyramids. Bao said that Maria made an error. Explain whether Maria is correct or incorrect and why.
- What fraction of the blocks in the set are not cubes or pyramids?

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.

- 35** Omar buys some school supplies. The shaded part of the decimal grid below represents the part of \$10 that remains after buying the supplies.



Omar decides to give the money remaining to his 2 sisters so they can buy postage stamps, which cost \$0.55 each. Omar gives both sisters the same amount.

Nora, one of the sisters, claims that more postage stamps could have been bought if the sisters combine the money.

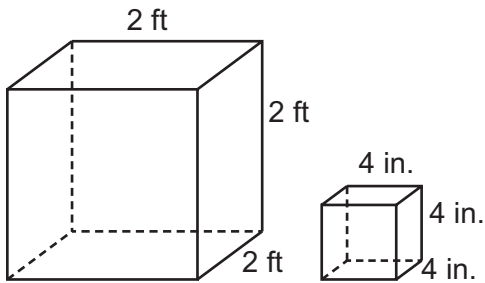
- Is Nora's claim correct or incorrect?
- Describe a process that Nora could use to find the greatest number of postage stamps that each sister can buy.
- How many postage stamps can each sister buy?

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.

- 36** On a given day, a kindergarten teacher's instruction time is broken into 3 parts. The reading portion of the time is $1\frac{1}{2}$ hours long. The math portion is $\frac{1}{2}$ as long as the reading portion. The science portion was $\frac{1}{4}$ of the reading portion. How many hours does the teacher's instruction time last? Explain your answer.

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.

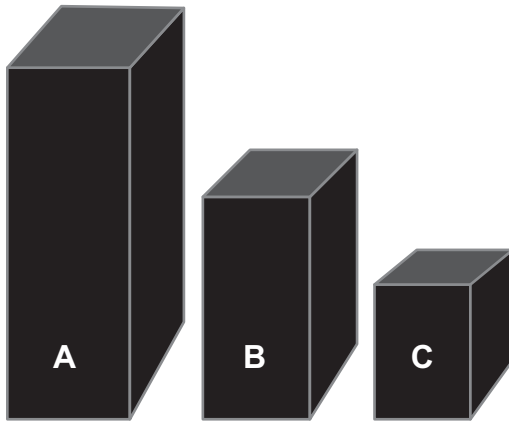
- 37** A granola bar company packs granola in boxes that are 4-inch cubes. These boxes are then packed into the shipping crate shown below.



- Find the volume of the box used for granola.
- Find the volume of the shipping crate.
- How many boxes of granola will fit in the shipping crate to fill it completely?
Explain how you found your answer.

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.

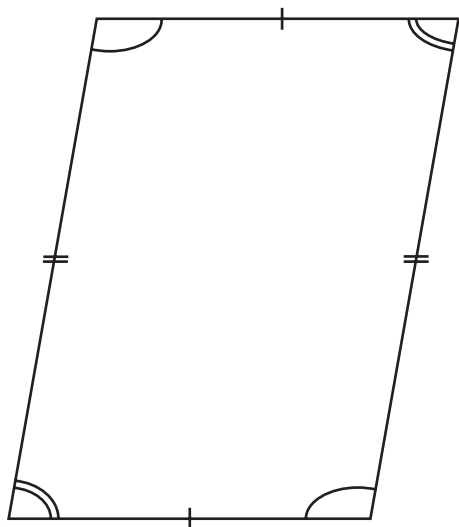
- 38** The diagram below shows a set of three different-size containers used to store cereal. The largest container holds $9\frac{1}{2}$ cups of cereal. Container B holds $\frac{3}{4}$ of the amount of Container A. Container C holds $\frac{3}{4}$ of the amount of Container B.



- Find the number of cups of cereal that Container B holds. Explain how you found your answer.
- Find the number of cups of cereal that Container C holds. Explain how you found your answer.
- How many cups of cereal can be stored in all three containers?

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.

- 39** The diagram below shows a quadrilateral.



- Why is the figure a parallelogram?
- Why is the figure not a rectangle?
- Why is the figure not a rhombus?

Write your answer and explanation in the space provided. Support your answer using words, numbers, and/or symbols.