

A decorative border of pencils surrounds the entire page. The pencils are arranged in a rectangular frame, with some pointing inwards and some outwards.

PRINCETON & HAMPTON

UNIVERSITY

5TH GRADE

BREAK HOMEWORK

PACKET

Parent Signature: _____

Scholar's Name: _____

Date: _____

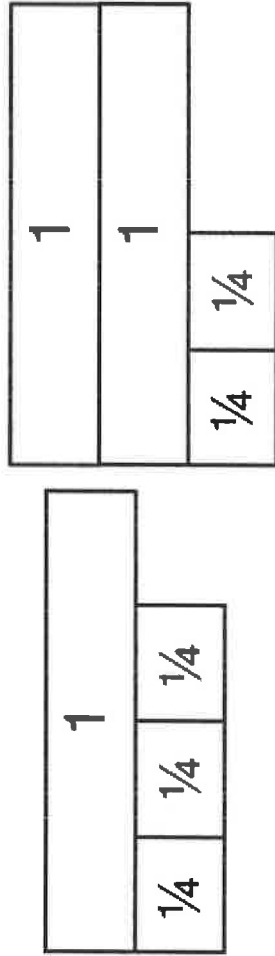
PACKET MUST BE SIGNED BY A PARENT/GUARDIAN TO
RECEIVE FULL CREDIT

Test Title: enVisionmath2.0 - Grade 5 - Topics 01-12 Benchmark Test

<p>Student Name :</p> <p>Date :</p>



Yolanda ran $1\frac{3}{4}$ miles on Saturday and $2\frac{1}{2}$ miles on Sunday. She used fraction strips to model the total distance she ran.



Part A

Which statement explains why Yolanda models $2\frac{1}{2}$ using $\frac{1}{4}$ strips instead of $\frac{1}{2}$ strips?

- A. She needs a common denominator to multiply the fractions.
- B. She needs a common denominator to add the fractions.
- C. She made a mistake and should have used $\frac{1}{2}$ strips.
- D. It does not matter what size strips she uses.



Part B

What is the total distance that Yolanda ran?

- A. $2\frac{3}{8}$ miles
- B. 4 miles
- C. $4\frac{1}{4}$ miles
- D. 5 miles



Drag the numbers to complete the following statements.
Numbers may be used more than once.

$$100 \quad \frac{1}{100}$$

0.5 is times 50.

0.005 is times 0.5.

50 is times 0.5.



Colin uses $\frac{2}{3}$ cup of vegetable oil in each cake that he makes for his father's bakery.

If Colin made 8 cakes, how much oil did Colin use in all?

- A. $5\frac{1}{3}$ cups
- B. $7\frac{1}{3}$ cups
- C. $8\frac{2}{3}$ cups
- D. $16\frac{1}{3}$ cups



Part A

Find the product of 2.57 and 23.
Enter your answer in the box.

$2.57 \times 23 =$



Part B

How did you know where to place the decimal point in the product in **Part A**?



There are two decimal places in the factors, so there should be two zeros in the product.



There are a total of two decimal places in the factors, so there should be two decimal places in the product.



The greatest number of decimal places in either factor is two, so there should be two decimal places in the product.



The second factor has no decimal places, so there should be no decimal places in the product.



Drag a number into each box to show how to find the quotient $432 \div 24$ using the model. Numbers may be used once, more than once, or not at all.

18 1 192 8 0

Tens + =

24	$\begin{array}{r} 432 \\ - 240 \\ \hline \end{array}$	$\begin{array}{r} 192 \\ - 192 \\ \hline \end{array}$
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$432 \div 24 =$



Helena's family drank 4,600 milliliters of milk at breakfast.

How many liters of milk did they drink?

Enter your answer in the box.

liters



Drag each number to a box on the right to match it with the correct expression on the left.

- 5.075
- 3.15
- 5.875
- 7.55

Multiplication Expression Product

2.03×2.5

1.4×2.25

2.35×2.5

3.02×2.5



Choose Yes or No to tell if the number 3.23 will make each equation true.

$4.65 + \square = 7.88$ Choose.. ▾

$\square + 6.42 = 9.45$ Choose.. ▾

$2.85 + \square = 6.08$ Choose.. ▾

$\square + 8.49 = 10.72$ Choose.. ▾



Brandon is running errands for his mother.

It is $\frac{1}{4}$ mile from his house to the library and $\frac{2}{3}$ mile from the library to the grocery store.

Brandon claims that he walks a total of $\frac{11}{12}$ mile if he goes from his house to the library to the grocery store.

Which of the following shows whether Brandon is correct and why or why not?



Yes; the correct distance is $\frac{11}{12}$ mile because $\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$.



No; the correct distance is $\frac{10}{12}$ mile because $\frac{1}{4} + \frac{2}{3} = \frac{4}{12} + \frac{6}{12} = \frac{10}{12}$.



No; the correct distance is 1 mile because $\frac{1}{4} + \frac{2}{3} = \frac{4}{12} + \frac{8}{12} = \frac{12}{12} = 1$.

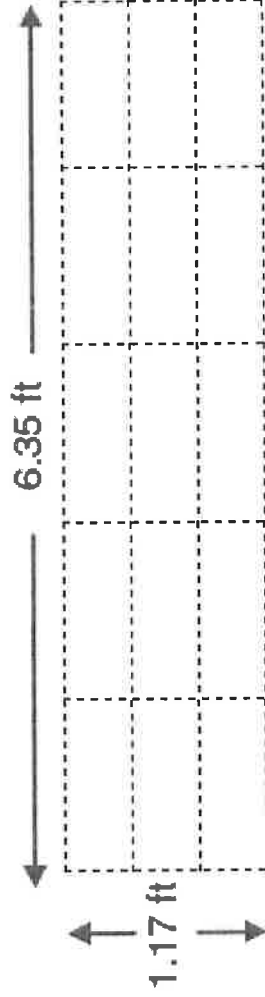


No; the correct distance is $1\frac{1}{2}$ miles because $\frac{1}{4} + \frac{2}{3} = \frac{4}{12} + \frac{9}{12} = \frac{13}{12} = 1\frac{1}{2}$.



Mrs. Leary has 15 students in her class.

For the first day of school, she makes desk name tags from a poster that is 6.35 feet long and 1.17 feet wide. The diagram below shows how she cuts the paper into 15 pieces of equal size.



Part A

How long is each piece?

Use the drop-down menus to show an equation you can use to answer the question.

An equation is . Each piece is feet long.



Part B

How wide is each piece?

Use the drop-down menus to show an equation you can use to answer the question.

An equation is . Each piece is feet wide.



At an office store, pens are sold by the box with 15 pens per box.

The store has 232 boxes to sell.

How many pens does the store have to sell?

Enter your answer in the box.

pens



Matt's Ice Cream Shoppe has 7 cups of sprinkles to use on sundaes for the rest of the day. If each sundae is served with $\frac{1}{8}$ cup of sprinkles, how many sundaes can they serve?

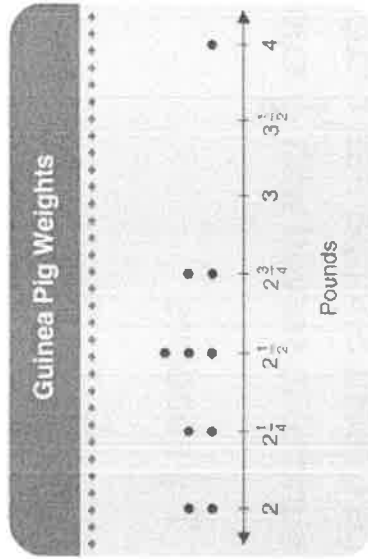
- A. $7\frac{1}{8}$ sundaes
- B. 15 sundaes
- C. 30 sundaes
- D. 56 sundaes



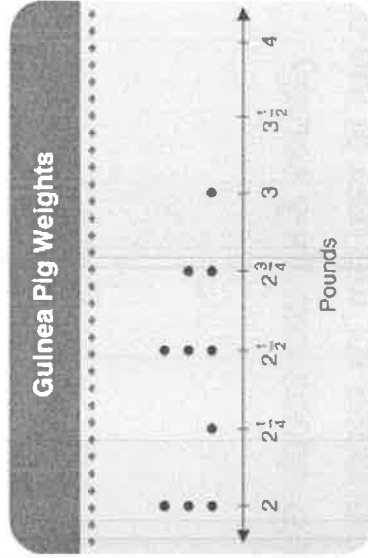
Kathy weighs the guinea pigs at the pet store where she works. The table shows the weights of the guinea pigs in pounds. Which line plot correctly shows the data?

2	$2\frac{1}{2}$	$2\frac{1}{4}$	2	$2\frac{1}{2}$
$2\frac{3}{4}$	$2\frac{1}{2}$	2	3	$2\frac{3}{4}$

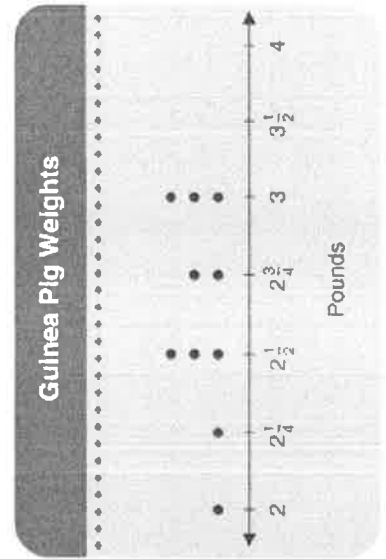
A.



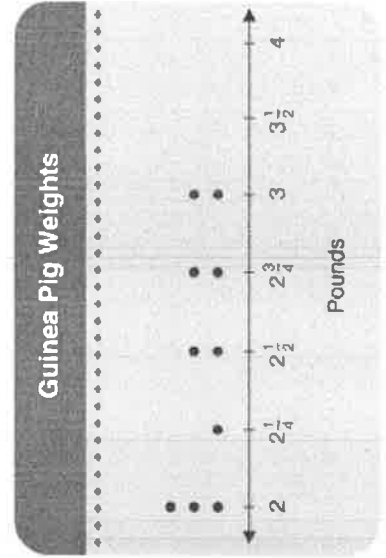
B.



C.

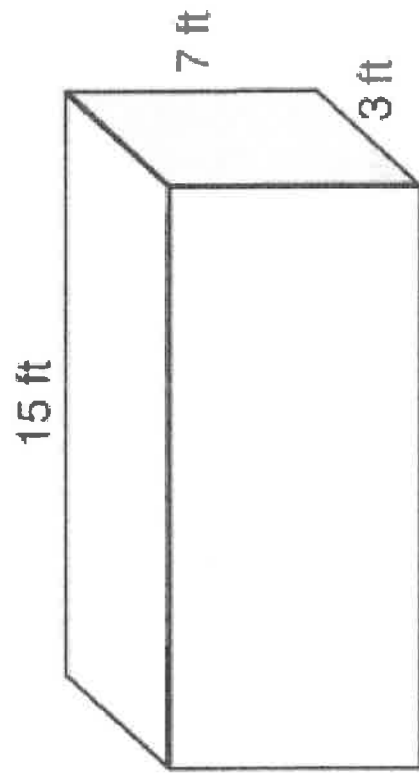


D.





A shipping crate has the dimensions shown in the figure below.
What is the volume of the crate?



- A. 25 cubic feet
- B. 52 cubic feet
- C. 315 cubic feet
- D. 450 cubic feet



Noah rolls out a carpet piece and measures it.

Part A

The length of the carpet is 8 yards 9 inches.

How long is the carpet in inches? Enter your answer in the box.

inches



Part B

The carpet is going to be placed on a floor that is 11 yards 2 feet long.

How long is the floor in inches? Enter your answer in the box.

inches



Determine which two whole numbers each quotient is between and drag the expression into the appropriate box below.

$$240 \div 90$$

$$170 \div 60$$

$$250 \div 80$$

$$140 \div 40$$

$$170 \div 70$$

$$110 \div 30$$

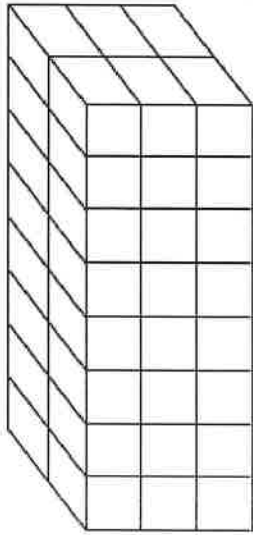
Between 2 and 3

Between 3 and 4

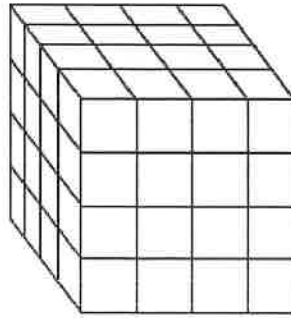


Each cube in the figures below is one cubic unit.
Which figure does NOT have a volume of 48 cubic units?

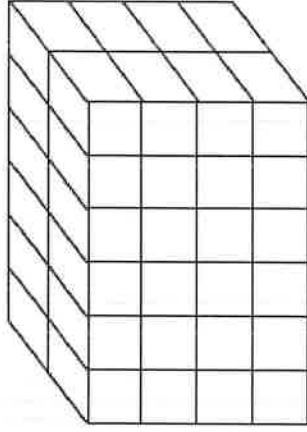
A.



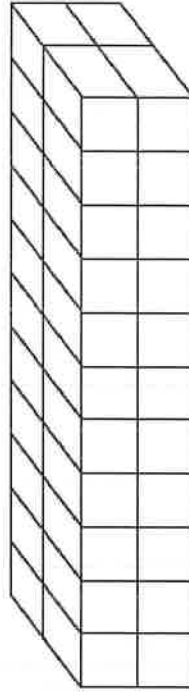
C.



B.

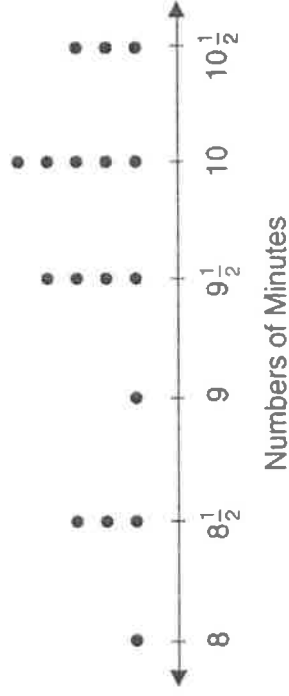


D.





The line plot shows the number of minutes that it took people in an experiment to finish a puzzle. Which of the following statements about the data are true? Select all that apply.



A.



Most people took less than $9\frac{1}{2}$ minutes to finish the puzzle.

B.



The same number of people took 8 minutes to finish the puzzle as took 9 minutes.

C.



More than twice as many people took 10 minutes as people who took $8\frac{1}{2}$ minutes to finish.

D.



A total of 17 people were in the experiment.

E.



The most common amount of time people took to finish the puzzle was 10 minutes.



Which of the following equations are true for the number 9?

Select all that apply.

A. $4 \div \square = \frac{9}{4}$

B. $\frac{1}{9} = \square \div 9$

C. $7 \div \square = \frac{7}{9}$

D. $\square \div \frac{1}{9} = 81$



Tyson's puppy weighed 8 pounds 3 ounces last year.

In one year the puppy gained 2 pounds 4 ounces.

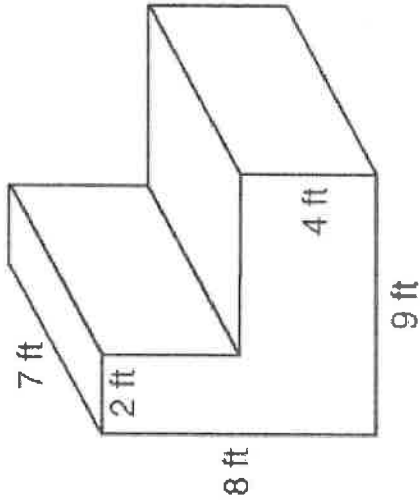
How much does Tyson's puppy weigh now in ounces?

Enter your answer in the box.

ounces



An artist built a wooden sculpture in the shape shown below.



Part A

Which expressions could be used to find the volume of the sculpture?

Select all that apply.

- A. $(7 \times 8 \times 2) + (7 \times 7 \times 4)$
- B. $(8 \times 2 \times 7) + (9 \times 4 \times 7)$
- C. $(2 \times 4 \times 7) + (7 \times 4 \times 7)$
- D. $(9 \times 4 \times 7) + (2 \times 7 \times 4)$



Part B

What is the volume of the sculpture?

Enter your answer in the box.

cubic feet



Complete each conversion by dragging a number to each box.
Numbers may be used once, more than once, or not at all.

12,000 g = kg

120 cm = mm

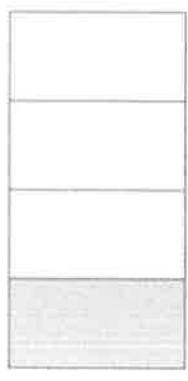
1.2 L = mL

1,200 cm = m

0.12 m = mm



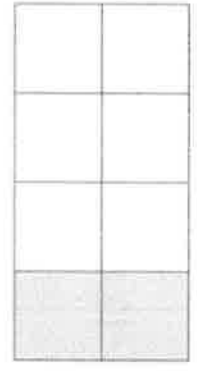
$\frac{1}{4}$ of the schoolyard is used by the fifth graders for recess, as shown by the shaded part of the diagram. Teachers have 3 different activities planned for recess that will take up the same amount of space.



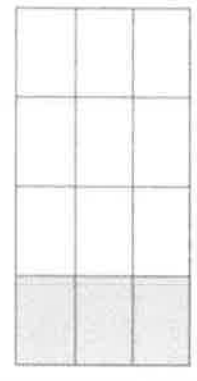
Part A

Which model shows how the schoolyard can be divided into equal spaces for the activities?

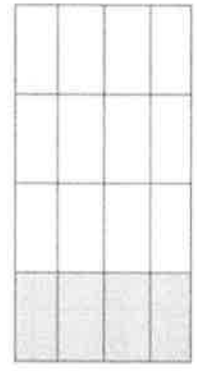
A.



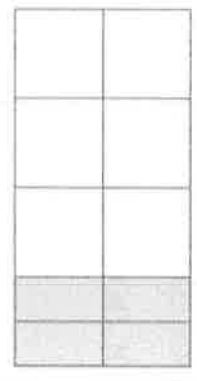
B.



C.



D.



Part B

What fraction of the schoolyard will each activity take up?

A. $\frac{1}{3}$

B. $\frac{1}{6}$

C. $\frac{1}{12}$

D. $\frac{3}{4}$



Drag the tiles to match each measurement with an equivalent measurement.

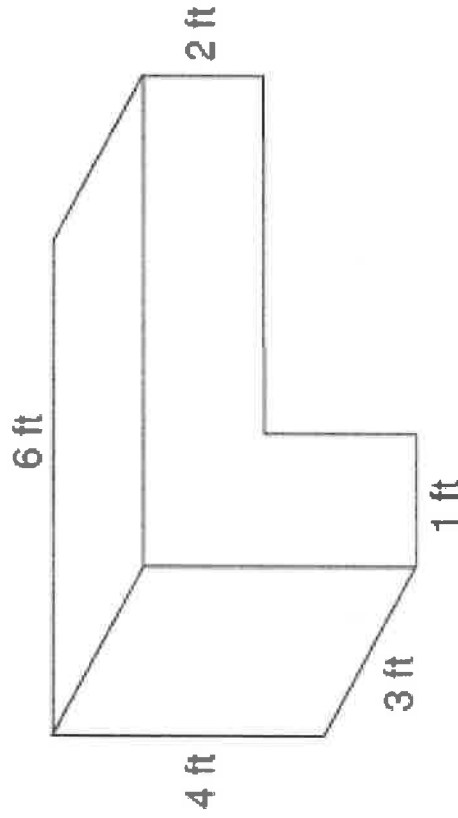
- 1 cup
- 12 cups
- 8 quarts
- 1 gallon

Measurement Equivalent Measurement

- 6 pints
- 16 pints
- 8 fluid ounces
- 8 pints



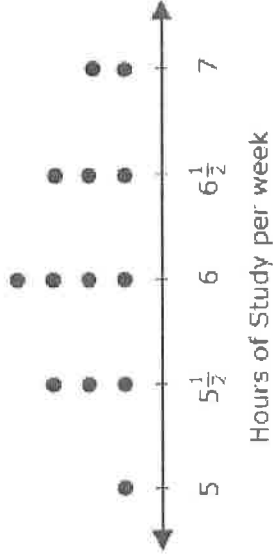
An online pet store offers the hamster house shown in the figure below. Choose all of the expressions that could be used to find the volume of the hamster house.



- A. $(1 \times 3 \times 4) + (2 \times 5 \times 3)$
- B. $(1 \times 3) + (4 \times 2) + (5 \times 3)$
- C. $(1 \times 3 \times 2) + (6 \times 3 \times 2)$
- D. $3 \times (1 + 4) + 2 \times (5 + 3)$
- E. $(3 \times 4) + 1 \times (2 \times 5) + 3$



Madelyn asked her classmates how many hours per week they study at home. She collected the data in the line plot shown below.



Drag the numbers to complete an equation to find the total number of hours per week that Madelyn's classmates study at home. Numbers may be used once, more than once, or not at all.

- 1

$$(5 \times \boxed{}) + (5 \frac{1}{2} \times \boxed{}) + (6 \times \boxed{}) + (6 \frac{1}{2} \times \boxed{}) + (7 \times \boxed{}) = \boxed{} \text{ hours}$$



Drag the numbers into the boxes to make each equation true.

$$4 \div \frac{1}{\square} = 16$$

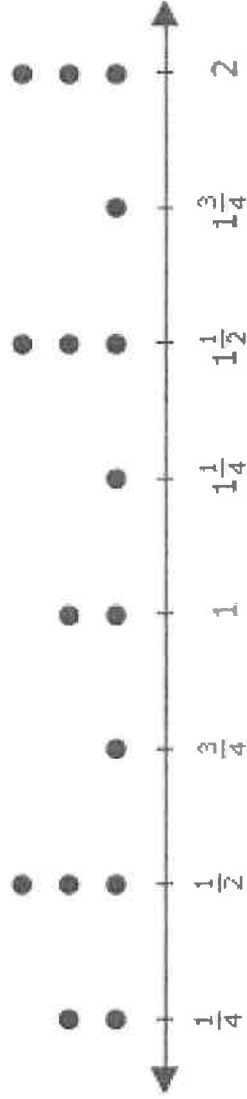
$$\square \div \frac{1}{3} = 27$$

$$6 \div \frac{1}{5} = \square$$

30 4 9



The line plot shows the amount of grass seed that a landscaper needs for each of her jobs. What is the total amount of grass seed that the landscaper needs?



- A. $14\frac{1}{8}$ pounds
- B. 16 pounds
- C. $18\frac{1}{4}$ pounds
- D. $20\frac{1}{2}$ pounds



Ben's dad is making a large pot of pasta sauce that calls for 3.5 kilograms of tomatoes.

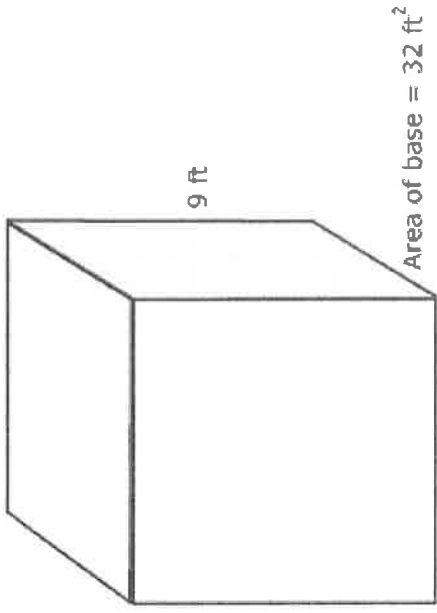
If he triples the amount of tomatoes for the recipe, how many grams of tomatoes will he use?

Enter your answer in the box.

 grams



Derek is building a closet in his bedroom. He draws a diagram that shows the dimensions of the closet.



Part A

Which expression can be used to find the volume of the closet?

- A. $9 + 32$
- B. 9×32
- C. $9 \times 9 \times 32$
- D. $(9 + 9) \times 32$



Part B

What is the volume of the closet? Enter your answer in the box.

 cubic feet

