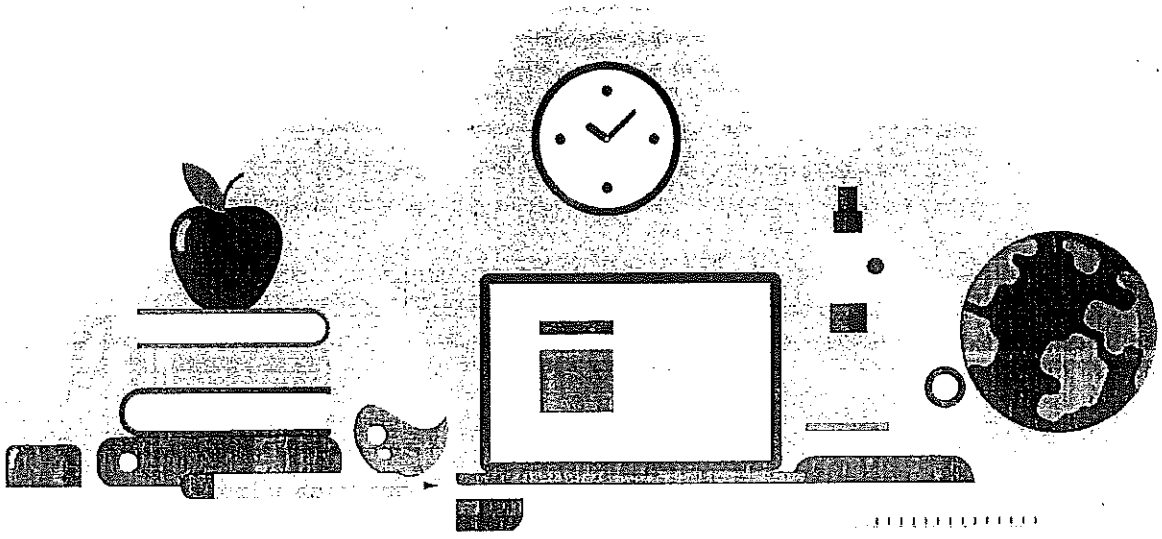

Summer Homework

Incoming 6th graders

Math Packet # 1

Name: Jay L.

1 What does $28 = 7 \times 4$ represent?

Ⓐ 28 times 7 equals 28 times 4.

Ⓑ 28 divided by 7 is 4.

Ⓒ 28 divided by 4 is 7.

Ⓓ 28 is 4 times as many as 7.

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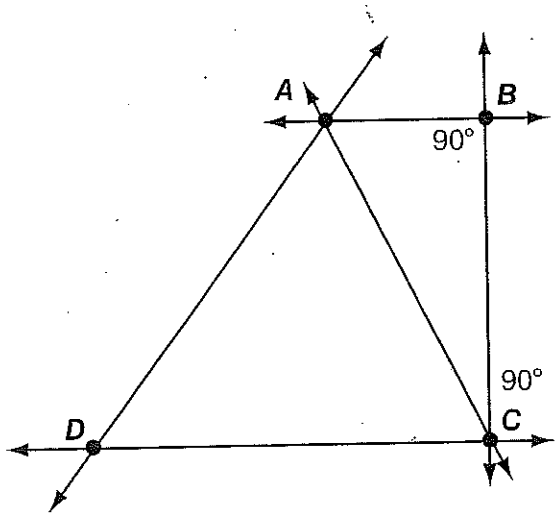
2 Which line is parallel to $\overleftrightarrow{AB}$ in this figure?



Ⓐ $\overleftrightarrow{BC}$

Ⓑ $\overleftrightarrow{CD}$

Ⓒ $\overleftrightarrow{AD}$

Ⓓ $\overleftrightarrow{AC}$

3 One way to show $\frac{5}{6}$ as a sum of fractions is $\frac{3}{6} + \frac{2}{6}$. Which shows another way?

Ⓐ $\frac{1}{6} + \frac{4}{6}$

Ⓑ $\frac{1}{3} + \frac{4}{3}$

Ⓒ $\frac{5}{6} + \frac{3}{6} + \frac{2}{6}$

Ⓓ $\frac{1}{3} + \frac{1}{3} + \frac{3}{3}$

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4 Sam's uncle drove 1,149 miles one month and 1,223 miles the next month. How many miles did Sam's uncle drive in the two months?

Ⓐ 2,362 miles

Ⓑ 2,372 miles

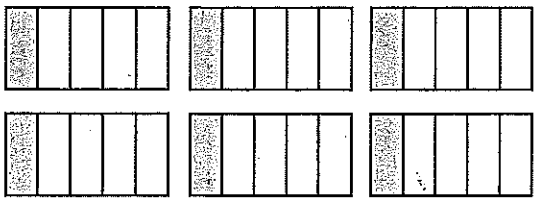
Ⓒ 2,462 miles

Ⓓ 2,472 miles

9 These two visual models show the same product.

$3 \times \frac{2}{5} =$

$6 \times \frac{1}{5} =$



Which of these is the product?

Ⓐ $1\frac{1}{5}$ Ⓒ $3\frac{2}{5}$

Ⓑ $2\frac{2}{5}$ Ⓓ $6\frac{1}{5}$

10 Which shows the expanded form of 32,009?

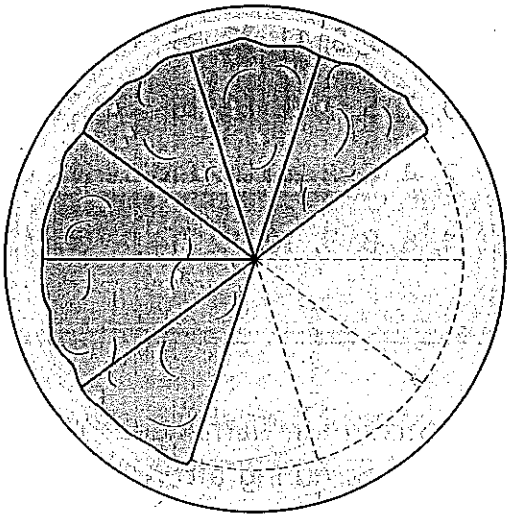
Ⓐ $3 \times 100{,}000 + 2 \times 10 + 9 \times 1$

Ⓑ $3 \times 10{,}000 + 2 \times 100 + 9 \times 10$

Ⓒ $3 \times 10{,}000 + 2 \times 1{,}000 + 9 \times 1$

Ⓓ $3 \times 100{,}000 + 2 \times 100 + 9 \times 10$

11 Shawn cuts the cornbread into 10 equal pieces. His family eats 4 pieces.



Which decimal equals the amount of cornbread that is left?

Ⓐ 0.04 Ⓒ 0.06

Ⓑ 0.40 Ⓓ 0.60

12 Which is true about a rectangle and a parallelogram?

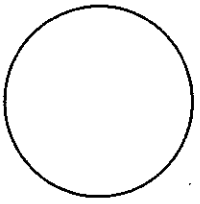
Ⓐ Both have no right angles.

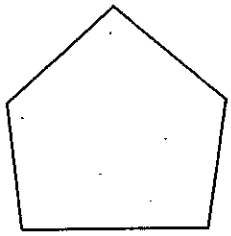
Ⓑ Both have no sides of equal length.

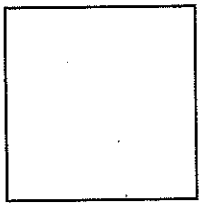
Ⓒ Both have 2 pairs of parallel sides.

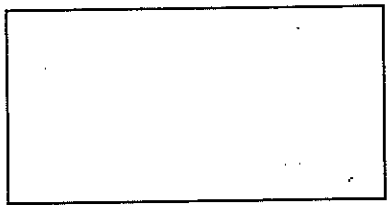
Ⓓ Both have 2 pairs of acute angles.

17 Which figure has exactly two lines of symmetry?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

18 Shakara bought $4\frac{5}{12}$ yards of ribbon to make a bow. After making the bow, she had $1\frac{3}{12}$ yards left. How much ribbon did Shakara use to make her bow?

Ⓐ $5\frac{8}{12}$ yards

Ⓑ $3\frac{2}{12}$ yards

Ⓒ $2\frac{2}{12}$ yards

Ⓓ $1\frac{8}{12}$ yards

19 In which group of numbers is each number a multiple of 4?

Ⓐ 12, 24, 48, 96

Ⓑ 12, 33, 66, 99

Ⓒ 21, 28, 49, 70

Ⓓ 25, 40, 75, 95

20 Kyle uses partial products to multiply a two-digit number by a two-digit number.

$$\begin{array}{r} 52 \\ \times\ 1\square \\ \hline 12 \\ 300 \\ 20 \\ +\ 500 \\ \hline 832 \end{array}$$

Which is the unknown digit?

Ⓐ 5

Ⓑ 6

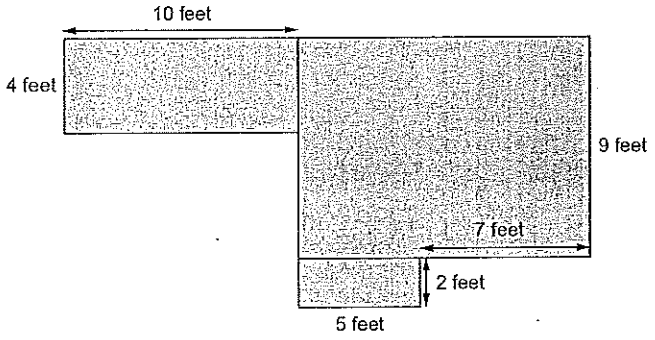
Ⓒ 7

Ⓓ 8

25 Lucy needs $\frac{3}{4}$ cup of flour for a recipe. How many times should she fill her $\frac{1}{4}$-measuring cup to make $\frac{3}{4}$ cup of flour?

Ⓐ 1
Ⓒ 3
Ⓑ 2
Ⓓ 6

26 Oliver measures a floor and creates this diagram.



Which is the area of the floor Oliver measures?

Ⓐ 37 square feet
Ⓑ 66 square feet
Ⓒ 113 square feet
Ⓓ 158 square feet

27 In which number does the 5 have 10 times the value it has in the number 954?

Ⓐ 459
Ⓑ 495
Ⓒ 594
Ⓓ 945

28 Zara needs to make 10 paper rose decorations. Each rose requires $\frac{2}{3}$ of a sheet of paper. How many sheets of paper does Zara need?

Ⓐ 6
Ⓑ 7
Ⓒ 20
Ⓓ 30

1 A small box is 1 unit long, 1 unit wide, and 1 unit high. Why is the box considered a unit cube?

Ⓐ It measures 1 square unit.

Ⓑ It measures 3 square units.

Ⓒ It measures 1 cubic unit.

Ⓓ It measures 3 cubic units.

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2 What is the value of the numerical expression?

$3 \times (4 + 5) + 16 \div (4 - 2)$

Ⓐ 21 Ⓒ 29

Ⓑ 25 Ⓓ 35

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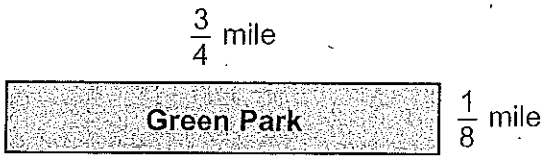
3 The diagram shows the plan for a new park.



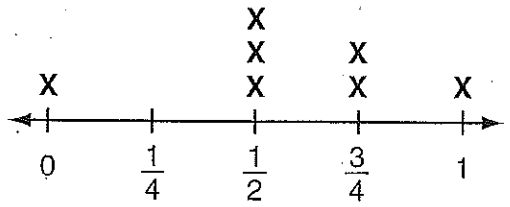
What is the area of the park in square miles?

Ⓐ $\frac{3}{32}$ Ⓒ $\frac{3}{8}$

Ⓑ $\frac{3}{12}$ Ⓓ $\frac{3}{4}$

4 The line plot shows how long Theo spent practicing the drums each day this week.

Time Spent Practicing Drums



Did Theo practice the drums for at least 5 hours this week?

Ⓐ No, he practiced for 3 hours.

Ⓑ No, he practiced for 4 hours.

Ⓒ Yes, he practiced for 6 hours.

Ⓓ Yes, he practiced for 7 hours.

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5 Peggy bakes 132 muffins for a bake sale. She plans to put them in packages that hold 12 muffins each. How many packages does Peggy need to hold all of the muffins?

Ⓐ 8 Ⓒ 10

Ⓑ 9 Ⓓ 11