Summer Homework

Incoming Fifth Grade

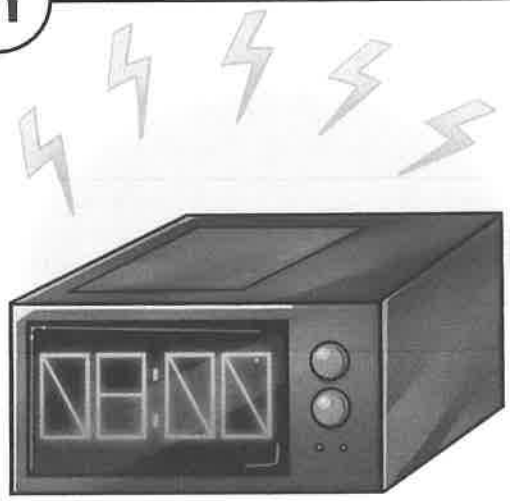
Name _____

Name: _____

Multiplication: 2-Digits by 2-Digits

Multiplication

Find the product.



a. 47 × 63 = _____

b. 86 × 25 = _____

c. 95 × 70 = _____

d. 78 × 39 = _____

e. 63 × 48 = _____

f. 59 × 96 = _____

g. 24 × 57 = _____

h. 96 × 86 = _____

i. 85 × 62 = _____

j. 98 × 74 = _____

k. How many seconds are there in 35 minutes?

answer: _____

Name: _____

2-Digit by 2-Digit

Multiplication

a. 87 × 29 = _____

b. A school is putting new seats in the auditorium. There are 18 rows with 15 seats in each row. How many total new seats does the school need to purchase?

Show your work.

answer: _____

c.

$$\begin{array}{r} 33 \\ \times\ 14 \\ \hline \end{array}$$

d. The Oak Grove school district just bought new school buses. They bought 16 large buses that can carry 72 students each. They also bought 5 small buses that can carry 32 students each. How many total students can ride on the new buses?

Show your work.

answer: _____

e. Complete the table.

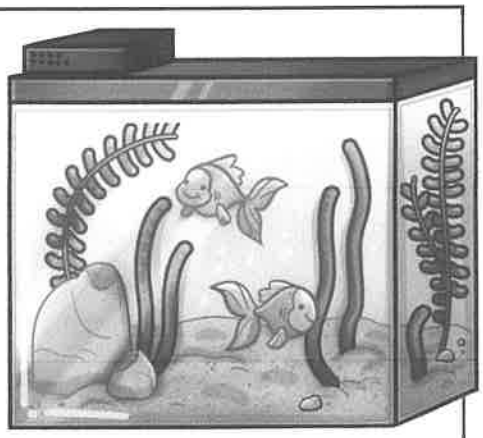
Input	Output
24	
36	576
48	
60	

Rule: Multiply by 16.

Name: _____

3-Digit Dividends, 2 and 3-Digit Quotients; Remainders

Long Division



a. $6\overline{)939}$

b. $4\overline{)154}$

c. $4\overline{)295}$

d. $3\overline{)328}$

e. $7\overline{)750}$

f. $3\overline{)743}$

g. $9\overline{)840}$

h. $8\overline{)429}$

i. There are 8 fish tanks in the pet shop. They just received an order of 216 goldfish. The owner of the pet shop wants each tank to have the same number of fish. How many goldfish will each tank have in it?

Show your work and label your answer.

_____

Name: _____

3-Digit Dividends; No Remainders

Division

a. 434 ÷ 7 = _____

b. Mrs. Lang wants to buy notebooks for her class. She has $174 to spend. Each notebook costs $3. How many notebooks can Mrs. Lang buy?

Show your work.

answer: _____

c.

$$6\overline{)282}$$

d. There are 128 students going on a field trip to the aquarium. The students will need to be put into groups of 8 for the tour. How many groups of students will there be?

Show your work.

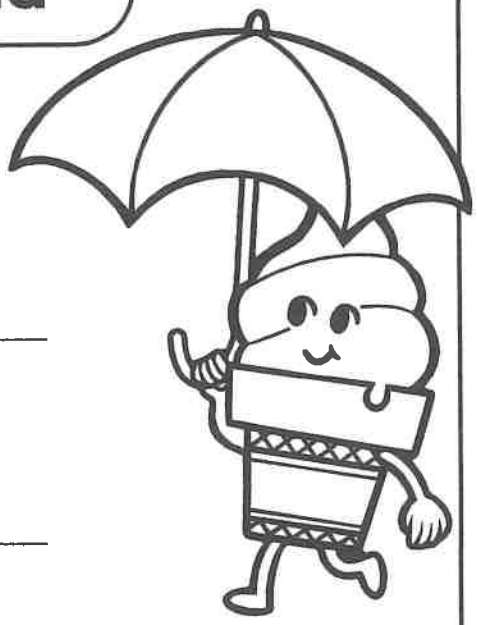
answer: _____

e. Complete the table.

Total	Divided by	Quotient
436	2	
555	3	
688	4	
725	5	

Name: _____

Ice Cream Umbrella



Add the fractions. Then solve the riddle by matching the letters to the blank lines below.

[E] $\frac{1}{5} + \frac{3}{5} =$ ____

[I] $\frac{6}{12} + \frac{5}{12} =$ ____

[N] $\frac{5}{11} + \frac{3}{11} =$ ____

[A] $\frac{3}{9} + \frac{4}{9} =$ ____

[S] $\frac{6}{10} + \frac{3}{10} =$ ____

[R] $\frac{1}{8} + \frac{4}{8} =$ ____

[C] $\frac{1}{11} + \frac{3}{11} =$ ____

[A] $\frac{4}{7} + \frac{2}{7} =$ ____

[C] $\frac{1}{4} + \frac{2}{4} =$ ____

[P] $\frac{2}{6} + \frac{3}{6} =$ ____

[E] $\frac{1}{5} + \frac{2}{5} =$ ____

[F] $\frac{1}{3} + \frac{1}{3} =$ ____

[L] $\frac{4}{9} + \frac{4}{9} =$ ____

[H] $\frac{5}{10} + \frac{2}{10} =$ ____

[K] $\frac{2}{9} + \frac{3}{9} =$ ____

[O] $\frac{2}{11} + \frac{4}{11} =$ ____

[N] $\frac{3}{12} + \frac{4}{12} =$ ____

[S] $\frac{1}{7} + \frac{3}{7} =$ ____

Why did the ice cream carry an umbrella?

Because there was

____	____	____	____	____	____	____
$\frac{7}{9}$	$\frac{3}{4}$	$\frac{7}{10}$	$\frac{6}{7}$	$\frac{8}{11}$	$\frac{4}{11}$	$\frac{4}{5}$

____	____	____	____	____	____	____	____	____	____	____.
$\frac{6}{11}$	$\frac{2}{3}$	$\frac{4}{7}$	$\frac{5}{6}$	$\frac{5}{8}$	$\frac{11}{12}$	$\frac{7}{12}$	$\frac{5}{9}$	$\frac{8}{9}$	$\frac{3}{5}$	$\frac{9}{10}$

Name: _____

Adding & Subtracting Mixed Numbers

with Like Denominators

a. $5\frac{3}{8} + 3\frac{4}{8} =$

b. $7\frac{7}{9} - 1\frac{1}{9} =$

c. $8\frac{9}{12} - 6\frac{4}{12} =$

d. $18\frac{5}{6} + 6\frac{2}{6} =$

e. $2\frac{3}{5} + 9\frac{1}{5} =$

f. $27\frac{10}{11} - 13\frac{5}{11} =$

g. $11\frac{6}{7} - 9\frac{3}{7} =$

h. $1\frac{1}{4} + 16\frac{2}{4} =$

i. $7\frac{7}{10} + 18\frac{6}{10} =$

j. $23\frac{7}{8} - 14\frac{2}{8} =$

k. $3\frac{11}{12} - 2\frac{9}{12} =$

l. $9\frac{2}{7} + 9\frac{2}{7} =$

1 Which expression shows the expanded form of 14,030?

Ⓐ $1 \times 100{,}000 + 4 \times 10 + 3 \times 1$

Ⓑ $1 \times 10{,}000 + 4 \times 100 + 3 \times 10$

Ⓒ $1 \times 10{,}000 + 4 \times 1{,}000 + 3 \times 10$

Ⓓ $1 \times 100{,}000 + 4 \times 10{,}000 + 3 \times 1$

---

2 Teresa has 27 rocks. She has 3 times as many rocks as Franklin. How many rocks does Franklin have?

Ⓐ 9

Ⓑ 24

Ⓒ 30

Ⓓ 81

3 A rectangle has a length of 6 centimeters and a width of 6 centimeters. Which of these are the measurements of a rectangle with the same area, but a different perimeter?

Ⓐ length of 9 centimeters, width of 4 centimeters

Ⓑ length of 8 centimeters, width of 4 centimeters

Ⓒ length of 7 centimeters, width of 5 centimeters

Ⓓ length of 10 centimeters, width of 8 centimeters

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Name _____

4 Maria earns 5 extra-credit points for every 100 pages she reads. She records the pages she reads during one week on this table.

Day	Pages
Monday	150
Tuesday	150
Wednesday	50
Thursday	50
Friday	100

How many extra-credit points does Maria earn for the week?

Ⓐ 3 Ⓒ 20

Ⓑ 5 Ⓓ 25

5 Which fraction is equivalent to $\frac{12}{16}$?

Ⓐ $\frac{3}{8}$ Ⓒ $\frac{2}{3}$

Ⓑ $\frac{3}{4}$ Ⓓ $\frac{1}{2}$

6 Which list shows the following fractions in order from GREATEST to LEAST?

- $\frac{1}{2}$
- $\frac{2}{3}$
- $\frac{3}{8}$
- $\frac{5}{12}$

Ⓐ $\frac{1}{2}, \frac{3}{8}, \frac{5}{12}, \frac{2}{3}$

Ⓑ $\frac{3}{8}, \frac{5}{12}, \frac{1}{2}, \frac{2}{3}$

Ⓒ $\frac{2}{3}, \frac{5}{12}, \frac{3}{8}, \frac{1}{2}$

Ⓓ $\frac{5}{12}, \frac{3}{8}, \frac{2}{3}, \frac{1}{2}$

7 A scientist has 1,486 pictures of insects. She takes 592 new pictures of insects. How many pictures of insects does the scientist have now?

Ⓐ 1,078 Ⓒ 2,078

Ⓑ 1,978 Ⓓ 7,406

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8 In which group of numbers is 3 a factor of each number?

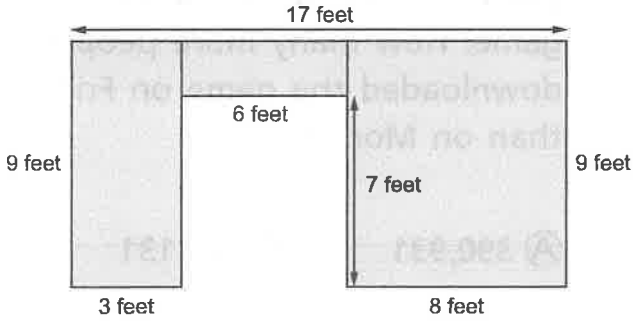
Ⓐ 12, 22, 32, 42

Ⓑ 15, 33, 45, 99

Ⓒ 21, 32, 43, 54

Ⓓ 33, 35, 37, 39

9 Yen measures a wall and creates this diagram.



Which is the area of the wall Yen measures?

Ⓐ 59 square feet

Ⓑ 99 square feet

Ⓒ 111 square feet

Ⓓ 153 square feet

10 Which of these correctly compares two fractions?

Ⓐ $\frac{1}{2} < \frac{2}{3}$

Ⓑ $\frac{3}{5} < \frac{2}{6}$

Ⓒ $\frac{3}{4} < \frac{4}{6}$

Ⓓ $\frac{7}{8} < \frac{6}{10}$

11 A teacher has 220 pencils. Maisha has 22 pencils. How many times more pencils does the teacher have than Maisha?

Ⓐ 10

Ⓑ 20

Ⓒ 100

Ⓓ 198

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Name _____

12 Which equation is true?

Ⓐ $120 \div 40 = 6 - 2 - 2$

Ⓑ $270 \div 30 = 3 + 3 + 3$

Ⓒ $120 \div 20 = 2 + 2 + 2$

Ⓓ $160 \div 80 = 14 - 5 - 5$

13 When Carlos rounded a number to the nearest ten, it was 550. When he rounded the number to the nearest hundred, it was 600. Which of these could be the number Carlos rounded?

Ⓐ 545 Ⓒ 552

Ⓑ 549 Ⓓ 556

14 Which two numbers come next in this pattern?

2, 13, 24, 35, __, __

Ⓐ 42, 51 Ⓒ 45, 55

Ⓑ 43, 54 Ⓓ 46, 57

15 On Monday, 29,840 people downloaded a new game on their phones. On Friday, 420,771 people downloaded the same game. How many more people downloaded the game on Friday than on Monday?

Ⓐ 390,931 Ⓒ 409,131

Ⓑ 391,931 Ⓓ 410,931

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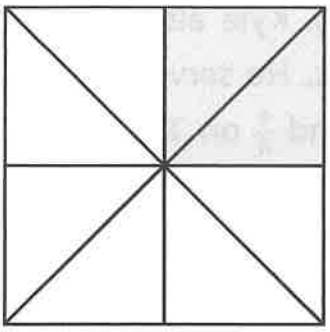
16 This visual model shows $\frac{2}{8}$ of the box shaded.



Which of these fractions is equivalent to $\frac{2}{8}$?

Ⓐ $\frac{1}{4}$ Ⓒ $\frac{1}{2}$

Ⓑ $\frac{2}{6}$ Ⓓ $\frac{3}{4}$

17 Which of these numbers is a multiple of 3 and a factor of 45?

Ⓐ 18 Ⓒ 9

Ⓑ 12 Ⓓ 6

18 Elena uses partial products to multiply a two-digit number by a two-digit number.

$$\begin{array}{r} 62 \\ \times\ \square 3 \\ \hline 6 \\ 180 \\ 40 \\ +\ 1{,}200 \\ \hline 1{,}426 \end{array}$$

Which is the unknown digit?

Ⓐ 1 Ⓒ 3

Ⓑ 2 Ⓓ 4

19 A book costs \$9. A radio costs 7 times as much as the book. What is the cost of the radio?

Ⓐ \$16 Ⓒ \$63

Ⓑ \$56 Ⓓ \$72

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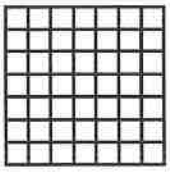
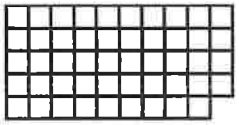
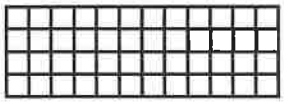
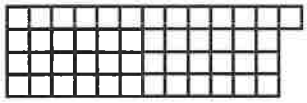
Name _____

20 Which visual model represents $49 \div 4$?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

21 Vanessa bakes one dozen rolls. She serves $\frac{1}{3}$ on Monday and $\frac{1}{3}$ on Tuesday. Kyle also bakes one dozen rolls. He serves $\frac{1}{4}$ on Monday and $\frac{1}{4}$ on Tuesday. Which of these correctly compares the fraction of a dozen they each serve?

Ⓐ $\frac{1}{3} + \frac{1}{3} = \frac{1}{4} + \frac{1}{4}$

Ⓑ $\frac{1}{3} + \frac{1}{3} < \frac{1}{4} + \frac{1}{4}$

Ⓒ $\frac{1}{4} + \frac{1}{4} > \frac{1}{3} + \frac{1}{3}$

Ⓓ $\frac{1}{4} + \frac{1}{4} < \frac{1}{3} + \frac{1}{3}$

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22 What is 583×47?

Ⓐ 27,401 Ⓒ 6,413

Ⓑ 27,301 Ⓓ 6,313

23 Fatima buys 2 bags of grapes. The first bag of grapes weighs $1\frac{2}{4}$ pounds. The second bag of grapes weighs $1\frac{3}{4}$ pounds. What is the total weight of the grapes Fatima buys?

Ⓐ 2 pounds

Ⓑ $2\frac{1}{4}$ pounds

Ⓒ 3 pounds

Ⓓ $3\frac{1}{4}$ pounds

24 Which of these is a correct comparison of 962,146 and 962,164?

Ⓐ $962{,}146 > 962{,}164$

Ⓑ $962{,}146 < 962{,}164$

Ⓒ $962{,}146 = 962{,}164$

Ⓓ $962{,}146 + 962{,}164$

25 Which equation shows the number that is 3 times as many as 12?

Ⓐ $12 \div 3 = 4$

Ⓑ $12 - 3 = 9$

Ⓒ $12 + 3 = 15$

Ⓓ $12 \times 3 = 36$

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1 Raul collected 7 seashells. Miriam collected 4 times as many as Raul. How many seashells did Miriam collect?

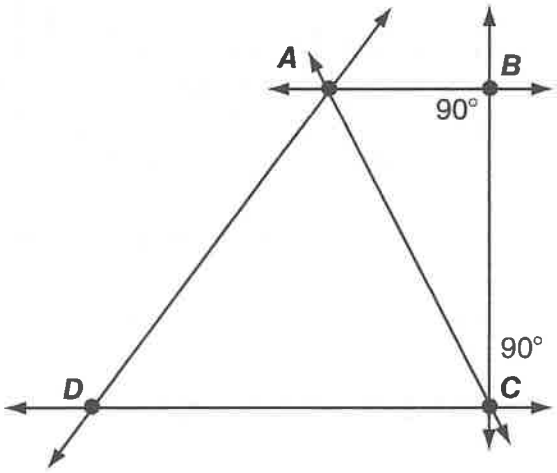
Ⓐ 5

Ⓑ 11

Ⓒ 21

Ⓓ 28

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?

Ⓐ $\frac{1}{6} + \frac{4}{6}$

Ⓑ $\frac{1}{3} + \frac{4}{3}$

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

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

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

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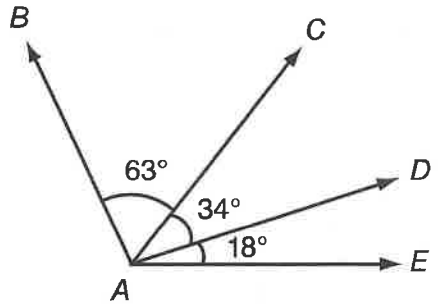
5 What is the measure of $\angle BAE$?



Ⓐ 52° Ⓒ 97°

Ⓑ 81° Ⓓ 115°

6 Which decimal is equal to $\frac{1}{10}$?

Ⓐ 0.01 Ⓒ 1.1

Ⓑ 0.1 Ⓓ 10.1

7 Jamal's class collects 37 board games. Chen's class collects 3 times as many as Jamal's class. The classes donate all of the games to 9 local groups. Each group receives about the same number of games. Which is the BEST estimate of how many games each group receives?

Ⓐ 4 Ⓒ 28

Ⓑ 16 Ⓓ 32

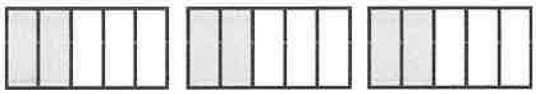
8 What is 2,548 rounded to the nearest thousand?

Ⓐ 2,000 Ⓒ 3,000

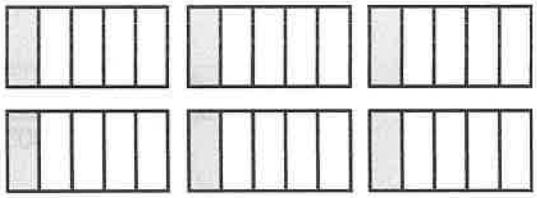
Ⓑ 2,500 Ⓓ 3,500

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?

Ⓐ $1\frac{1}{5}$ Ⓒ $3\frac{2}{5}$

Ⓑ $2\frac{2}{5}$ Ⓓ $6\frac{1}{5}$

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10 Which expression shows the expanded form of 32,009?

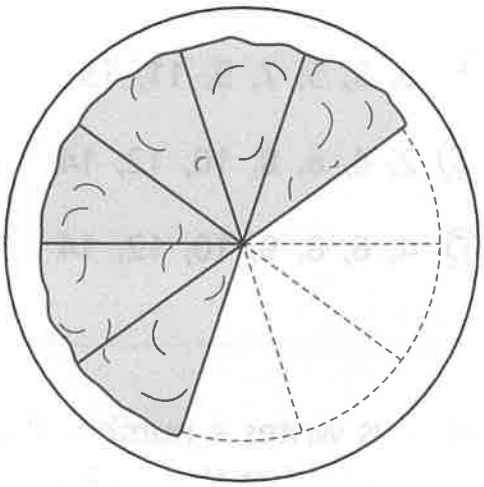
Ⓐ $3 \times 100{,}000 + 2 \times 10 + 9 \times 1$

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

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

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

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 A rectangle has a perimeter of 50 centimeters and an area of 156 square centimeters. Which dimensions are for a rectangle with the same perimeter but a different area?

Ⓐ 10 centimeters by 5 centimeters

Ⓑ 12 centimeters by 13 centimeters

Ⓒ 15 centimeters by 10 centimeters

Ⓓ 39 centimeters by 4 centimeters

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13 Which list contains only composite numbers?

Ⓐ 1, 2, 3, 5, 11, 12, 13

Ⓑ 0, 3, 5, 7, 9, 11, 13

Ⓒ 2, 4, 6, 8, 10, 12, 14

Ⓓ 4, 6, 8, 9, 10, 12, 14

14 Marcus writes a number that is one-tenth less than 3.20. Amber writes a number that is one-hundredth less than Marcus's number. What is the number Amber writes?

Ⓐ 3.31 Ⓒ 3.11

Ⓑ 3.19 Ⓓ 3.09

15 Regina has 9 bracelets. Joel has 3 times as many bracelets as Regina. Which equation can be used to find the number of bracelets, n, that Joel has?

Ⓐ $9 + 3 = n$

Ⓑ $9 - 3 = n$

Ⓒ $9 \times 3 = n$

Ⓓ $9 \div 3 = n$

16 Gabriella plays video games from 2:49 p.m. to 3:32 p.m. Mason plays video games for 35 minutes. How many minutes longer does Gabriella play video games than Mason?

Ⓐ 3

Ⓑ 8

Ⓒ 14

Ⓓ 17

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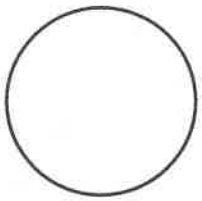
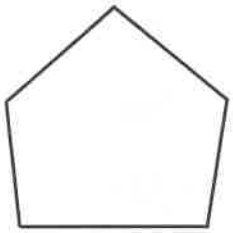
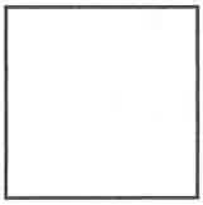
17 Which figure has exactly two lines of symmetry?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ

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 4 a factor of each number?

Ⓐ 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

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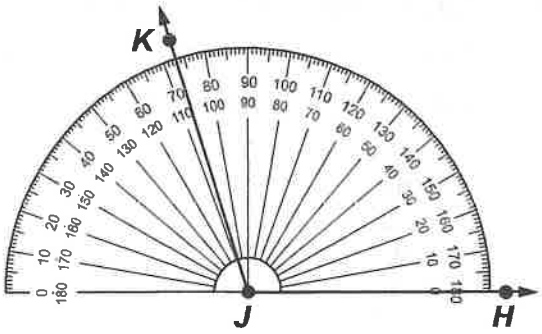
21 Lee ate $\frac{3}{8}$ of a pizza. Margie ate $\frac{1}{8}$ of the pizza. How much more of the pizza did Lee eat than Margie?

Ⓐ $\frac{2}{8}$ Ⓒ $\frac{8}{2}$

Ⓑ $\frac{3}{8}$ Ⓓ $\frac{8}{3}$

22 What is the measure of $\angle HJK$?



Ⓐ 70° Ⓒ 107°

Ⓑ 73° Ⓓ 180°

23 In September, 2,209 people visited a museum. In June, the number of visitors to the museum grew to 3,897. Which of the following uses rounding to the nearest hundred to estimate the change in the number of visitors?

Ⓐ 4,000 − 2,000

Ⓑ 4,000 − 2,200

Ⓒ 3,900 − 2,200

Ⓓ 3,800 − 2,300

24 Veronica creates a number pattern that follows the rule "Add 15" and starts at 6. What are the first four numbers in the pattern Veronica creates?

Ⓐ 6, 30, 45, 60

Ⓑ 6, 21, 36, 52

Ⓒ 6, 20, 35, 51

Ⓓ 6, 12, 18, 24

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

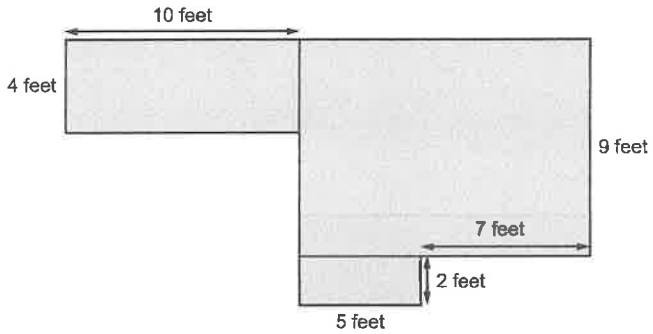
Ⓐ 1

Ⓑ 2

Ⓒ 3

Ⓓ 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

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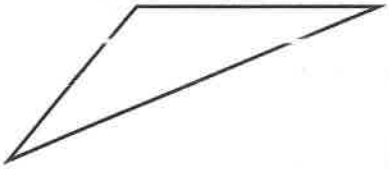
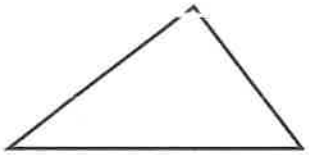
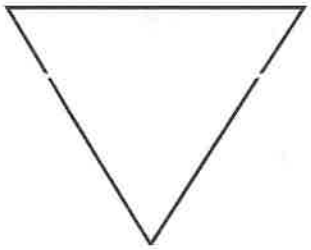
Name _____

29 Which triangle has an obtuse angle?

Ⓐ 

Ⓑ 

Ⓒ

Ⓓ 

30 Mr. Kim plants trees in a ro that is 9 yards long. How many feet long is the row?

Ⓐ 12 feet

Ⓑ 18 feet

Ⓒ 24 feet

Ⓓ 27 feet

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