Math Nums Ops Algebra and Geometry 7_7

Student Name:_____   Date:_____
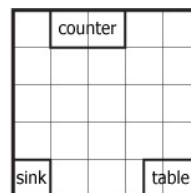
1.

$\frac{1}{4}$ of Jim's gumballs are red.

What % are red?

A. 50%
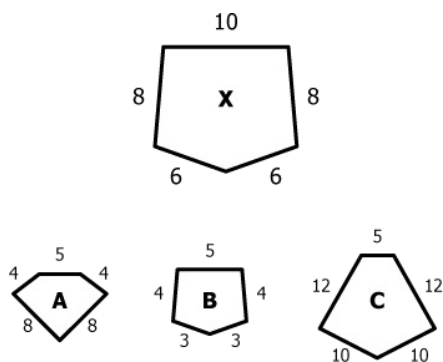
B. 20%

C. 25%

2.

☐ = 1 cm

1 cm = 4 ft

counter

sink   table

How long is the counter?

A. 8 feet

B. 5 feet

C. 6 feet

3.

10

8   **X**   8

6   6

5
4   **A**   4
8   8

5
4   **B**   4
3   3

5
12   **C**   12
10   10

Which is similar to X?

A. A

B. B

C. C

4.

Carlos makes 2 pizzas in 1 hour.

How many hours to make 10 pizzas?

A. 10

B. 20

C. 5

5.

Triangle ABC has 3 equal sides of 4 cm.

Triangle DEF is congruent to Triangle ABC.

How long is side DE?
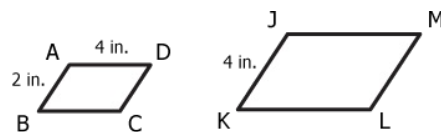
A. 8 cm

B. 12 cm

C. 4 cm

6.

ABCD is similar to JKLM

JM = ___ in.

A. 6

B. 4

C. 8

7.

4 in 5 students like juice.

There are 25 students.

How many like juice?

A. 24

B. 15

C. 20

8.
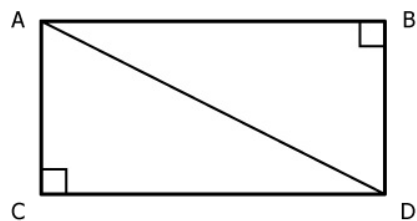
Triangle ACD is congruent to Triangle ABD

AB = ___

A. AD

B. CD

C. AC

9.

O —9 in.— P

5 in.

R ——— Q

Perimeter = ___ in.
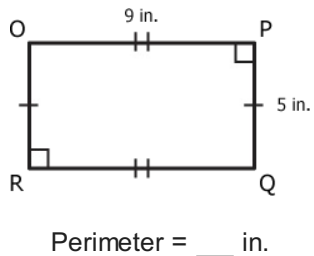
A. 14

B. 45

C. 28

10.

29% of 58 = ___

A. 16.82

B. 168.2

C. 1682

11.
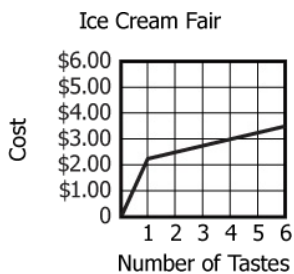
Ice Cream Fair

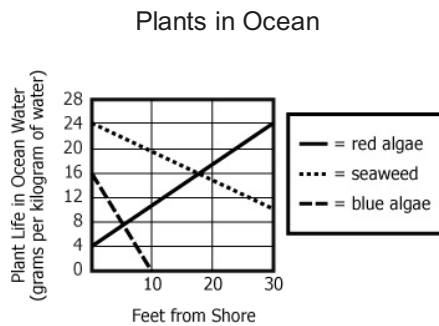It costs $2.25 to get the first taste at an ice cream fair. Each new taste costs $0.25.
How much to have 2 tastes?
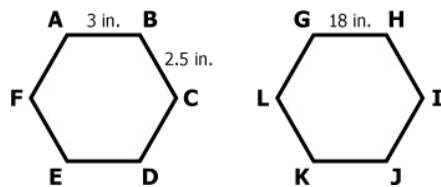
A. $2.50

B. $2.75

C. $2.25

12.

Plants in Ocean

The more feet you go from shore, the more ___ there is.

A. blue algae

B. seaweed

C. red algae

13.

A 3 in. B   G 18 in. H

2.5 in.

F   C   L   I

E   D   K   J

The shapes are similar.

$$\frac{AB}{GH} = \frac{BC}{HI}$$

How long is side HI?

A. 15 in.

B. 12 in.

C. 8.5 in.

14.

Radio Type	Radio Cost
Radio A	$150.00
Radio B	$175.00
Radio C	$75.00
Radio D	$100.00

Which costs $\frac{2}{3}$ as much as Radio A?

A. Radio B

B. Radio D

C. Radio C

15.

10 gallons of gas = 200 miles

How many gallons per 20 miles?

A. 1

B. 2

C. 4

16.

20 nickels = 1 dollar

Rob earns $8.00 per hour.
He works for 3 hours.

How many nickels did he earn?

A. 500

B. 400

C. 480