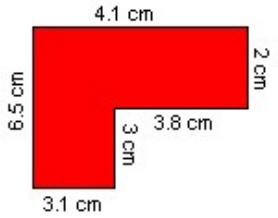
Name:_____ Class/Period:_____

Assignment: HW #23 Teacher: Fletcher

1 The perimeter of a figure is the sum of the lengths of its sides. What is the perimeter of the figure shown in the diagram?



Answer: [ ] cm

2 Use one transformation to solve the equation $\frac{1}{2}x = 32$.

1 32
2 64
3 96
4 128

3 The table below represents a relationship between x and y.

x	0	1	2	8
y	1	2	3	9

Which ordered pair would be on the graph of the relationship between x and y?

1 (4, 5)
2 (5, 5)
3 (6, 5)
4 (7, 9)

4 Distribute $3(x + 2)$.

1 $3x + 1$
2 $3x + 2$
3 $3x + 6$
4 $x + 6$

5 Use the symbol <, =, or > to make the statement true.

-3 [ ] 5

6 Which ordered pair represents a reflection of the point $(-3, 5)$ across the y-axis?

1 $(-3, 5)$
2 $(-3, -5)$
3 $(3, -5)$
4 $(3, 5)$

7 During physical education class Dwayne ran 2.5 miles on the treadmill. His friend ran 5 kilometers. If 1 mile equals 1.609 km, which student ran a further distance and how much further did he run?

1 Dwayne; 3.45 km
2 Dwayne; 4.0225 km
3 Dwayne's friend; 0.9775 km
4 Dwayne's friend; 2.5 km

8 Enter the symbol [<, =, >] that makes the statement true:

$83\frac{1}{3}\%$ [ ] $\frac{9}{10}$

9 At a middle school, 74 students have freckles. There are 258 students in the school. To the nearest tenth of a percent, what percent of the students have freckles?

1 18.4%
2 28.7%
3 34.6%
4 40.2%

10 A store sells cans of tomatoes priced as shown.

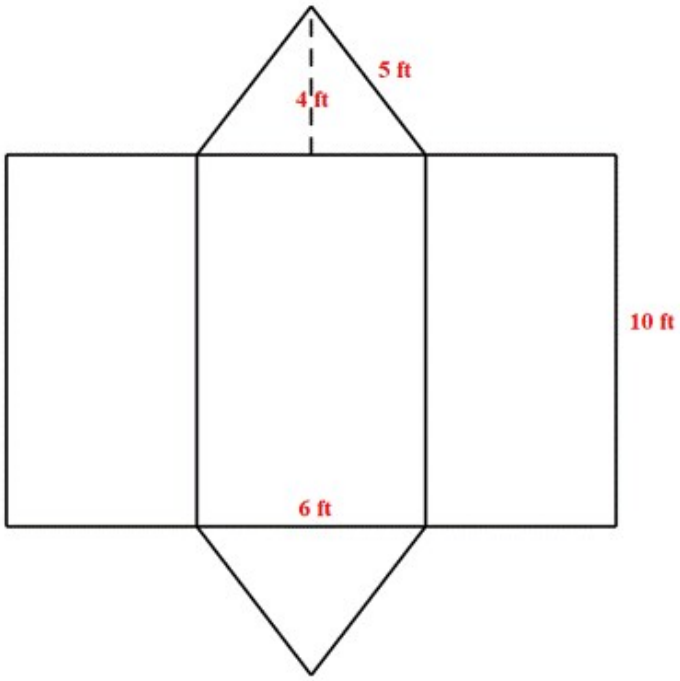
Canned Tomatoes

Size	Cost
10 ounces	$0.89
15 ounces	$1.29
18 ounces	$2.26
32 ounces	$3.39

Which size can of tomatoes has the lowest cost per ounce?

1 10 ounces
2 15 ounces
3 18 ounces
4 32 ounces

11 A net of a three-dimensional figure is shown.



What is the surface area of the three-dimensional figure?

1 184 ft^2
2 180 ft^2
3 150 ft^2
4 125 ft^2

12 The ratio of the number of roses to the number of tulips in a bouquet is 5 to 2, and this is shown in the table below.

Flower Bouquets

# of Roses	# of Tulips
15	6
20	*x*
30	12

What is the value of x in the table above?

1 1. 7
2 2. 8
3 3. 9
4 4. 10