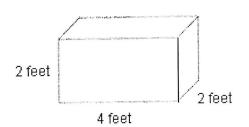
## **Grade 5 Sample Items**

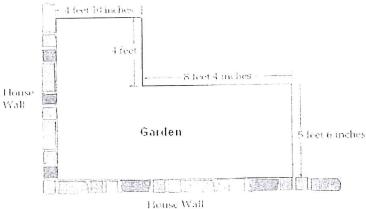
1. Mike has a fish tank shaped like a rectangular prism. A diagram of the tank is shown below.



Volume of rectangular prism = lwh
= length x width x height

What is the volume, in cubic feet, of the fish tank?

- A. 6 cubic feet
- B. 8 cubic feet
- C. 10 cubic feet
- D. 16 cubic feet
- 2. Daniel is building a garden in his yard. The measurements of the garden are shown in the diagram below.



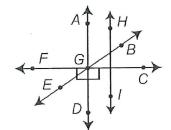
What is the total PERIMETER, in feet and inches, of the garden?

- A. 22 feet 4 inches
- B. 22 feet 8 inches
- C. 44 feet 8 inches
- D. 45 feet 4 inches

- 3. Which of the following number lines shows the correct placement of the numbers 1.6, 0.75,  $1\frac{3}{4}$ , and  $\frac{1}{2}$ ?

  - B. 0
  - C. 0
  - $D. \quad \begin{array}{c|c} \bullet & \bullet & \bullet \\ \hline 0 & 1 & 2 \\ \hline \end{array}$
- 4. The sum of  $\frac{3}{8}$  and  $\frac{1}{4}$  is between which two numbers?
  - A. 0 and  $\frac{1}{4}$
  - B.  $\frac{1}{4}$  and  $\frac{1}{2}$
  - C.  $\frac{1}{2}$  and  $\frac{3}{4}$
  - D.  $\frac{3}{4}$  and 1
- 5. Allie collected 16 baseball cards. She gave some to Sean and then bought 6 more. Which expression could you use to represent the number of baseball cards Allie has now?
  - A. (16-c)+6
  - B. (16-c)-6
  - C. (16 + c) + 6
  - D. (16+c)-6

6. Which lines in the drawing appear to be parallel to each other?



- A. line EB and line FC
- B. line AD and line HI
- C. line AD and line FC
- D. line HI and line FC

7. A number cube is numbered from 1 to 6. If you roll the cube, what is the probability that you will roll an odd number?

- A. 0
- B.  $\frac{1}{3}$
- C.  $\frac{1}{2}$
- D. 1

8. Coins are produced at the United States Mint in Philadelphia. If the mint can make 45,000 coins each hour, how many coins can it make in a 24-hour period?

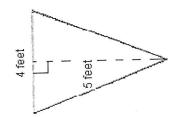
Show All Work

Answer	coins
Auswer	Coms

Bi tra	lueberry muffinck of the numb	ns are on the men per of pints of blu	u every morning in the school cafeteria. The cook keeps eberries she uses each day.
	Pints of Blueberries Used		
	Monday	$4\frac{1}{2}$ pints	
	Tuesday	$3\frac{2}{3}$ pints	
	Wednesday	$5\frac{1}{3}$ pints	
	Thursday	$3\frac{1}{2}$ pints	·
	Friday	4 pints	
	Friday	4 pints 5 pints of bluebers	ies at the beginning of the week. How many pints we
O	on the lines belo	ow, describe a mer method?	thod you could use to solve this problem. How many s

Now solve the prob	lem.	
Show all work.		
Answer	pints of blueberries	
10. Edward is having a when 3 pizzas are o	pizza party for his birthday. What fraction of a pizza will divided among 8 people?	each person ge
Show all work.		
Answer	and said that she would rather have 25% of a pizza becaus below show why Izzie was incorrect and explain your an	e that would be swer.
Edward ended up 25% of a pizza ea	having 1½ pizzas left over from the party. How many frie	
Show all work		
Angwer	friends	

11. Joan needs to paint the cardboard triangle shown in the diagram below for a school project.



Area of triangle = 
$$\frac{1}{2}bh$$
  
=  $\frac{1}{2} \times \text{base} \times \text{height}$ 

Joan has a bottle of paint that covers an area of 8 square feet. She thinks she will have to buy another bottle of paint to paint the front of the cardboard triangle.

Use words, numbers, or symbols to prove that Joan is correct.

feet, that she will have left to paint AFTER using one bottle of paint?

If Joan also wants to paint the back of the cardboard triangle, what is the total area, in square

Show All Work

Answer \_\_\_\_\_square feet

How many bottles of paint will she need to paint the entire front AND back of the cardboard triangle?

Show All Work

Answer \_\_\_\_\_bottles of paint

2. Dean is painting a wall that is 16 feet long and 9 feet high. One small can of paint will cover an area of 50 square feet.
How many cans of paint will Dean need to paint the wall?
Area of a rectangle = /w = length × width
Show All Work
Answercans
Dean needs to paint a 2 <sup>nd</sup> wall that measures 25 feet long and 5 feet high. He decides to buy 5 small cans of paint.
Use words, numbers, or symbols to verify if Dean has purchased enough paint to completely
paint BOTH walls.