## Math Madness #100

b. +

c. ÷

d. -

- 1. Eleven buses arrive at a state park. Each bus has exactly 46 passengers. After unloading, passengers are assigned to cabins that each sleep 12 people. How many cabins are needed to accommodate all the passengers?
  - a. 41
  - b. 42
  - c. 43
- 2. A cake recipe calls for  $1\frac{3}{5}$  cups of sugar. How much sugar is needed to make 4 cakes?
  - a.  $5\frac{1}{3}$  cups
  - b.  $5\frac{2}{3}$  cups
  - c.  $6\frac{2}{5}$  cups
  - d.  $6\frac{4}{5}$  cups

d. A rhombus is a square.

- 3. Joe made a pizza.
  - He gave  $\frac{1}{5}$  of the pizza to his father.
  - He ate  $\frac{1}{2}$  of the pizza.
  - He gave the remaining pizza to three friends to share equally.

What fraction of the pizza did each friend get?

- **a.**  $\frac{1}{10}$  b.  $\frac{2}{15}$  c.  $\frac{3}{10}$  d.  $\frac{1}{3}$

The dimensions of box are shown below.

5. Which operation makes the relationship true?

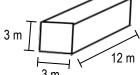
Y = 0, 3, 6,

Z = 0, 9, 18, 27, 36

a. A rectangle is a parallelogram with right angles.

c. A parallelogram is a quadrilateral with opposite

What is the volume of the box in cubic centimeters?



a. 108 cubic centimeters

6. Which statement is **not** true?

b. A trapezoid is a quadrilateral.

sides that are parallel.

- b. 10,800 cubic centimeters
- c. 180 cubic centimeters
- d. 18.000 cubic centimeters

Helpful Hint: 1 m = 100 cm

- 4. Don bought a new tent for \$175. He put \$90 down and received a employee discount of \$25. His brother gave him  $\frac{1}{2}$  of the balance for his birthday. Which expression can be used to find the amount Don still owes for the tent?
  - a.  $175-90+25 \div 2$
  - b.  $175-(90-25) \div 2$
  - c.  $[175-(90-25)] \div 2$
  - d. [175-(90+25)]÷2

8. Ryan made this pictograph to show the number of **feet** it snowed in each of these months.

How many **inches** did it snow in January?

- a. 24 inches
- b. 27 inches c. 28 inches
- d. 30 inches



Helpful Hint: 1 foot = 12 inches

## 9 & 10 (2 points) Short Answer / Extended Response

In Ms. Southwick's class,  $\frac{3}{8}$  of the students play basketball. Of the students that play basketball,  $\frac{2}{3}$  also play baseball. If there are 24 students in Ms. Southwick's class, how many students play basketball and baseball? Be sure to show each step in solving this problem.

Step 1: 
$$\frac{3}{8}$$
 of 24 = 9 students

Step 2: 
$$\frac{2}{3}$$
 of 9 = 6 students

students play both basketball and baseball.