

Look at the equation below.

72 ÷ \_\_\_\_\_ - 3 = 6

What value belongs in the box?

- A 8
- B 9
- © 12
- D 24

**2** Which of these is equal to 4,035?

- A 400 + 30 + 5
- B 4,000 + 30 + 5
- © 4,000 + 300 + 5
- D 4,000 + 300 + 50
- **3** (6 + 3) × 2 =
  - A 11B 12
  - 12
  - © 18
  - D 36

4 Cameron baby-sits his brother 4 hours every Saturday. If Cameron baby-sits his brother on 12 different Saturdays, how many <u>total</u> hours does he baby-sit?

- A 3 hours
- B 16 hours
- © 46 hours
- 48 hours



- © 173
- I77



STOP



$$4 imes$$
 (  $2$  + 2) =  $4 imes$  12

What is the value of the missing number?

- A 3
- B 6
- © 10
- D 12
- 7

Look at the pattern below.

1, 5, 9, 13, . . .

What is the eighth number in this pattern?

- A 17
- B 23
- © 29
- D 31

8 A tree is 66 inches in height. What is the height of the tree in feet?

- (a)  $5\frac{1}{2}$  feet (b)  $5\frac{3}{4}$  feet (c)  $6\frac{1}{4}$  feet
- (b)  $6\frac{1}{2}$  feet

**9** Look at the grid below. The location of three corners of a square are shown.



Which ordered pair represents the fourth point of the square?

- (2, 5)
- B (5, 2)
- © (4, 0)
- (0, 4)



Look at angle N shown below.



#### Which of these best describes angle N?

- (A) right
- B acute
- © obtuse
- D scalene



| 11 | Geoffrey had a 10-dollar bill. He bought three ice cream cones. Ice cream cones cost<br>\$1.78 each, including tax.  |
|----|--|
|    | Step A   |
|    | How much change did Geoffrey receive?  |
|    | Answer: \$   |
|    | Step B   |
|    | Use what you know about money/decimals to explain how you determined the amount of change Geoffrey received. Use words and/or numbers in your explanation. |
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## The boat below is 13 meters away from the dock.



About how many more meters does the boat need to travel to reach the island?

A 13 meters

12

- B 26 meters
- © 39 meters
- 52 meters
- **13** Bethany is using a spinner that has 9 equally spaced sections. There are 5 sections that have a star on them. The remaining sections do not have a star on them. When Bethany spins the arrow, what is the probability that it will <u>not</u> land on a star?
  - $\bigcirc \frac{4}{5}$

  - $\odot \frac{5}{4}$
  - $\bigcirc \frac{5}{9}$



- 14
- Look at the set of numbers below.

0 5 2 3 7 9 2

What is the mode of this set of numbers?

- **A** 2
- B 3
- © 4
- D 9
- **15** Look at the net (flat pattern) below.



If the net (flat pattern) is folded, which geometric shape is created?

- (A) rectangular prism
- B cube
- © rectangular pyramid
- D triangular prism

**16** Look at the scale below.



## What is the weight shown on the scale?

- A 123 pounds
- B 125 pounds
- © 128 pounds
- D 130 pounds

| 17 Step A |
|-----------|
|-----------|

Design a closed shape that has <u>exactly</u> one line of symmetry. Show the line of symmetry on your shape.

#### Step B

Explain how your line shows the symmetry of your shape.



**18** The table below shows the amount of rain that fell during each month of 2002 in Livermore, California.

| Month     | Rainfall<br>(in inches) |  |  |
|-----------|-------------------------|--|--|
| January   | 0.72                    |  |  |
| February  | 0.62                    |  |  |
| March     | 1.65                    |  |  |
| April     | 0.16                    |  |  |
| May       | 0.68                    |  |  |
| June      | 0.00                    |  |  |
| July      | 0.00                    |  |  |
| August    | 0.00                    |  |  |
| September | 0.00                    |  |  |
| October   | 0.00                    |  |  |
| November  | 2.65                    |  |  |
| December  | 7.01                    |  |  |

# Rainfall in Livermore in 2002

What was the <u>mean</u> amount of monthly rainfall, rounded to the nearest hundredth of an inch, in Livermore in 2002?

- O.00 inches
   O.00 i
- 0.39 inches
- © 1.12 inches
- D 1.93 inches

Use the centimeter side of your ruler to help you solve this problem.

Look at the picture of the bug below.



## What is the length of the bug?

- A 4.5 centimeters
- B 4.8 centimeters
- © 5.0 centimeters
- D 5.2 centimeters

20

19

Look at the pattern of shapes below.

 $\frac{1}{2}$ 

### If the pattern continues, what will be the 7th shape?



₿





