Math Counts, Science Matters, Reading Makes It Possible

1. What is the smallest positive whole number whose name is spelled with letters in alphabetical order?
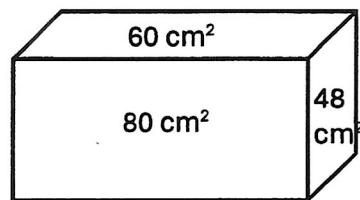
Answer:

forty

2. At 2:45 PM you are 117 miles from Iowa City, Iowa. You want to be in Iowa City at 5:00 PM on the same day. How many miles per hour must you average to be on time?

Answer:

52

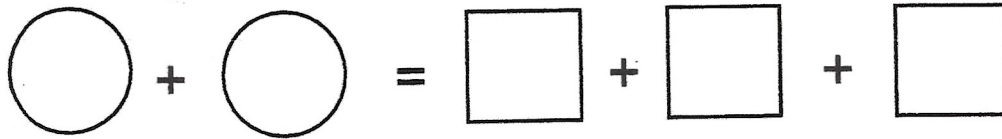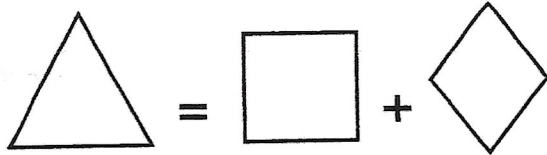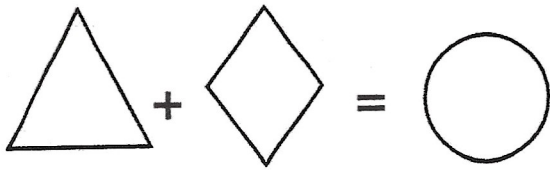3. The area of the faces of a box are given. What is the volume of the box?

60 cm²

80 cm²

48 cm²

Answer:

480

4. What is the sum of the largest and smallest prime factors of 5445?

Answer:

14

5.

$$\triangle + \diamondsuit = \bigcirc$$

$$\triangle = \square + \diamondsuit$$

$$\bigcirc + \bigcirc = \square + \square + \square$$

How many diamonds equal one triangle?

6. In a group of a dozen horses, some are 9 years old and the remainder are 11 years old. The total of their ages is 122 years. Find the age distribution.

7. Recently, the separation between college football goalpost uprights was reduced from 23 feet, 4 inches to 18 feet, 6 inches. To the nearest tenth of a percent, what was the reduction?