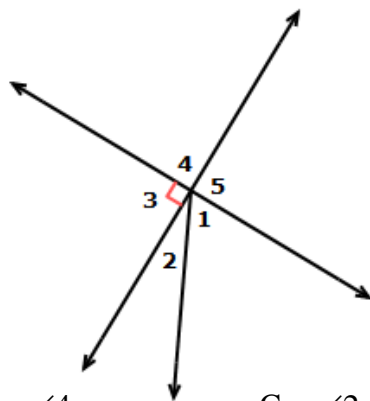


MATHEMATICS

01. The product of $22\frac{1}{2} \times 10$ lies between

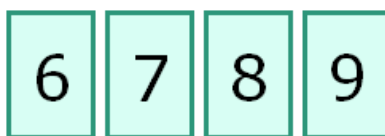
- A. 223 and 227 B. 21 and 25 C. 218 and 222 D. 3 and 7

02. The angle complement to $\angle 1$ in the following figure is



- A. $\angle 5$ B. $\angle 4$ C. $\angle 2$ D. $\angle 3$

03. A card is selected at random from the following. The probability of getting a card with a prime number is



- A. $\frac{1}{2}$ B. $\frac{1}{4}$ C. $\frac{3}{4}$ D. $\frac{1}{3}$

04. Which of the following algebraic expression is a binomial?

- A. $x - 5y + 7z$ B. $2y$ C. $2m + 3n$ D. -100

05. A bottle of juice shown below can hold $1\frac{1}{2}$ litres of juice. How many glasses of juice can you get from this bottle if each glass holds 300 ml?



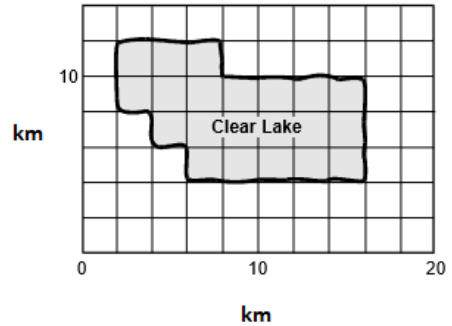
- A. 4 B. 50 C. 6 D. 5

06. An asteroid hit the Earth and created a huge round crater. Scientists measured the distance around the crater as 110 km. The diameter of the crater is

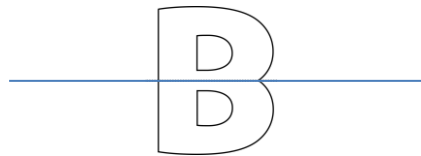
- A. 35 km B. 30 km C. 17.5 km D. 32 km

07. In the adjacent figure, the total length of Clear Lake's shoreline is

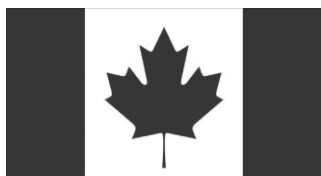
- A. 48 km
B. 44 km
C. 22 km
D. 56 km



08. A line of symmetry is a line about which the figure may be folded so that the two parts of the figure coincide.



For instance, the line shown above is a line of symmetry for the letter B. Shown below are the flags of four countries.



Canada



Israel



Finland



Albania

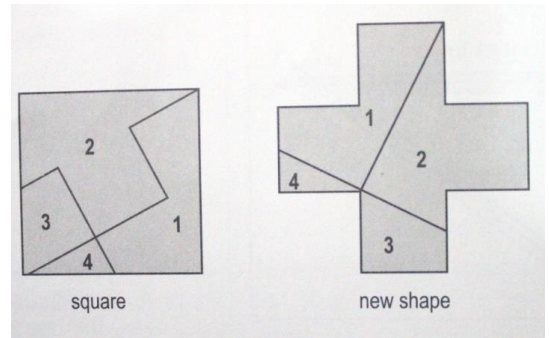
The flag which has more than one line of symmetry is

- A. Canada B. Israel C. Finland D. Albania

09. A square is cut into four pieces and joined to form a new shape as shown below.

What can be said about the area of the new shape?

- A. It is less than that of the square.
- B. It is the same as that of the square.
- C. It is more than that of the square.
- D. We cannot say any of the above as the areas are not known.



10. Krishnan has x rupees with him. He spent $\frac{1}{3}$ of his money for food and gave Rs. 100 for his son to buy a book. How much money in rupees is left with Krishnan now?

- A. $\frac{x}{3} - 100$
- B. $\frac{2x}{3} + 100$
- C. $\frac{2x}{3} - 100$
- D. $x - \frac{1}{3} - 100$

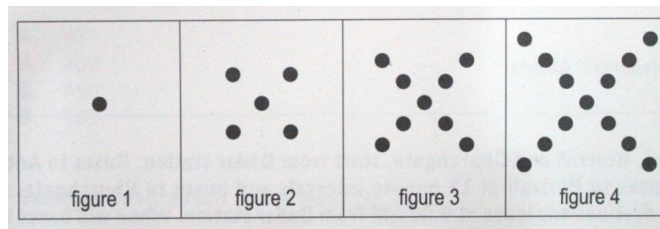
11. A shop keeper gave one tile free for every 4 tiles bought. How many tiles should Ravi buy, so that he gets a total of 60 tiles?

- A. 60
- B. 50
- C. 12
- D. 48

12. Your garden is in the shape of a rectangle that measures 8m by 6 m. You want to put a diagonal walk from corner to corner across the garden. What will be the length of the walk?

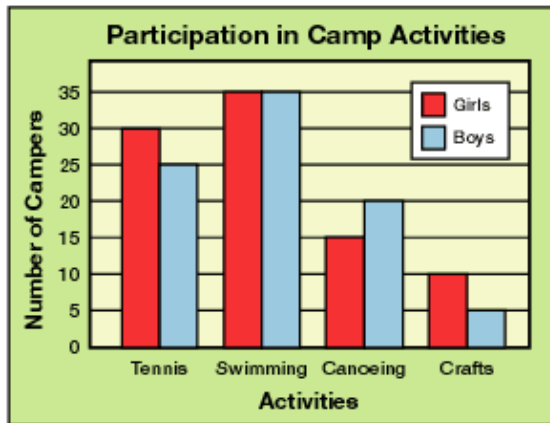
- A. 10 m
- B. 15 m
- C. 20 m
- D. 12 m

13. If the following pattern is continued, how many dots would be there in the 20th figure?



- A. $19 + 4$
- B. 20×4
- C. $(19 \times 4) + 1$
- D. $(20 \times 4) + 1$

14. The following double bar graph shows the comparative study of the participation of students in four camp activities.



In which activity, the number of participants are the same?

- A. Tennis & swimming
- B. Canoeing & Swimming
- C. Tennis & Canoeing
- D. None of these

15. The given graph shows the medals won by India in the Commonwealth Games from 1994 to 2014. In which year was the difference between the number of gold medals and bronze medals the maximum?

- A. 2014
- B. 2006
- C. 2002
- D. 2010

