

CLASS: 5

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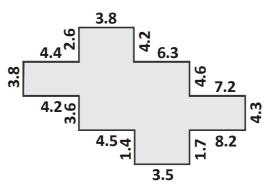
Mathematics

Study the pattern of fractions. 1.

How is the missing fraction expressed as a mixed fraction?

- (A) $6\frac{3}{7}$ (B) $7\frac{3}{5}$ (C) $3\frac{6}{7}$ (D) $6\frac{1}{7}$

- What is the perimeter of the given figure if all the 2. measures are in cm?

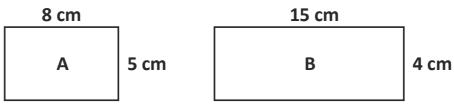


(A) 68.2 cm

(B) 68.1 cm

(C) 86.3 cm

- (D) 68.3 cm
- 3. What is the ratio of the area of rectangle A to the area of rectangle B?

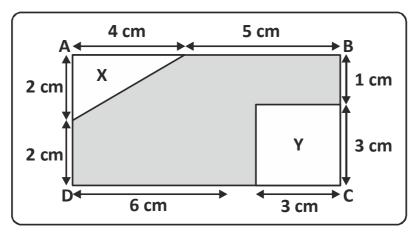


- (A) 1:2

- (B) 1:3 (C) 2:3 (D) 3:2



4. Find the area of the shaded part.

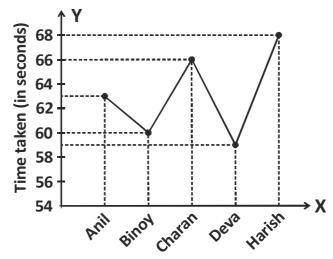


(A) 23 cm²

(B) 24 cm²

(C) 27 cm²

- (D) 30 cm²
- 5. What is the average time taken by the boys to complete the race ?



- (A) 62.5 seconds
- (B) 63.2 seconds
- (C) 64 seconds
- (D) 63 seconds





Class: 5

General Science

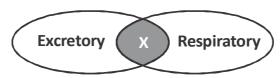
Study the given figure. In this case the hammer acts 6. as a



- (A) Ist order lever
- (B) IInd order lever
- (C) Inclined plane
- (D) Pulley
- Ravi observed water droplets on the leaves of a plant 7. on a cold morning as shown in the figure given below. The water droplets are formed by the



- (A) condensation of water vapour in air.
- (B) freezing of water in leaves.
- (C) evaporation of water from leaves.
- (D) all of these.
- Which of the following is 'X' in the figure given below? 8.



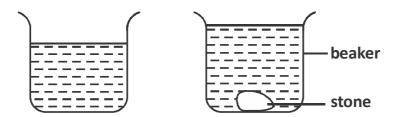
- (A) Kidney (B) Lungs (C) Stomach (D) Heart



9. How are the following animals similar?



- (A) They can crawl
- (B) They can fly
- (C) They lay eggs
- (D) They have four legs.
- 10. Mary drops a stone into a beaker of water. She notices that the level of water rises in the beaker.



The experiment that Mary has done tells her that the stone

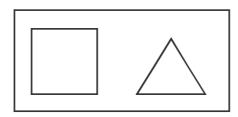
- (A) has no mass.
- (B) has the same volume as the water.
- (C) has no volume.
- (D) occupies space.



Class - 5

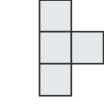
Critical Thinking

11. Find the shape that cannot be made by overlapping the two given figures.



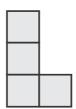
- (A)
- (B) <
- (C) ____
- (D)

12. Find the total number of wooden blocks used in a figure with the following top, front and side views.



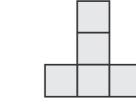
Тор

(A) 8 (B) 6



Front

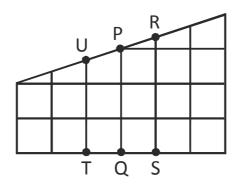
(C) 5



Right side

(D) 4

Which two points in the figure must be joined to divide the complete region into two identical parts?

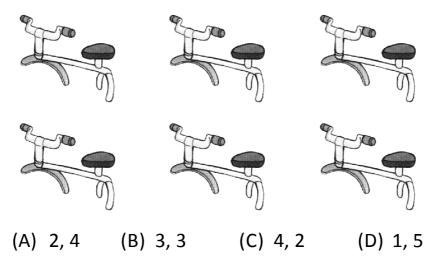


- (A) US
- (B) RT
- (C) RQ
- (D) PS

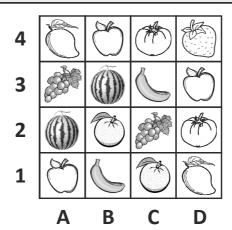
CLASS: 5



14. There are a total of 6 bicycles and tricycles. If there is a total of 15 wheels, how many bicycles and tricycles are there?



- 15. Write the name of the fruit described.
 - This fruit is not in column B.
 - This fruit is not in the same row or column as the grapes.
 - This fruit is not in row 1.



(A) Apple

(B) Mango

(C) Banana

(D) Strawberry



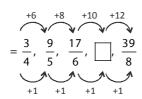


NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Solutions for Class: 5

MATHEMATICS

1. **(c)** $\frac{3}{4}$, $1\frac{4}{5}$, $2\frac{5}{6}$, ?, $4\frac{7}{8}$



.. The missing fraction

$$\frac{17}{6} \frac{10}{1} \frac{27}{7} 3\frac{6}{7}$$

2. **(D)** Perimeter of the given figure

3. (C) Area of rectangle A : Area of rectangle B = (8×5) cm² : (15×4) cm²

4. **(A)** Area of $X = \frac{1}{2} \times bh = \frac{1}{2} \times 4 \times 2 = 4cm^2$

Area of Y = S^2 = 3 × 3 = 9 cm² Area of rectangle = I × b = (9 × 4) =

Area of rectangle = $I \times b = (9 \times 4) = 36 \text{ cm}^2$

- \therefore Area of shaded part = 36 (4 + 9) = 36 13 = 23 cm².
- 5. **(B)** Average time taken by the boys

$$=\frac{63 \quad 60 \quad 66 \quad 59 \quad 68}{5}$$

$$\frac{316}{5}$$
 = 63.2 seconds

GENERAL SCIENCE

- (A) The given figure shows the action of pulling out of nail by hammer. It is an example of I order lever.
- 7. **(A)** The waterdroplets formed on the leaves of plant on a cold morning is due to condensation of water vapour in air.
- 8. **(B)** X in the given figure is lungs. Lungs are the respiratory and excretory in function.
- 9. **(C)** The tortoise, moth and lizard reproduce by laying eggs. Only the lizard crawls. The moth is an insect, so it has six legs, not four.
- 10. **(D)** The stone occupies the space in the beaker of water. The amount of space it occupies is called volume.

CRITICAL THINKING

- 11. (D)
- 12. **(B)**
- 13. **(D)**
- 14. **(B)**
- 15. **(D)**

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