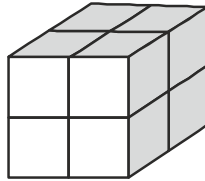


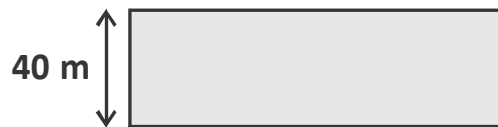
1. The cube in the figure was cut and separated into three pieces.



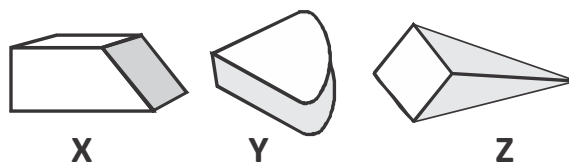
Which of the following groups could be the three pieces of the cube ?

- (A) (B) (C) (D)

2. Find the perimeter of a rectangular field if its length is three times its breadth.

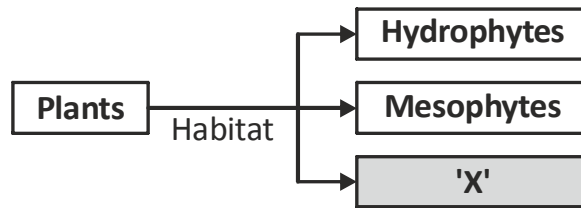


- (A) 302 m (B) 3200 cm (C) 408 m (D) 320 m
3. Which one of the following figures has a face in the shape of a square ?



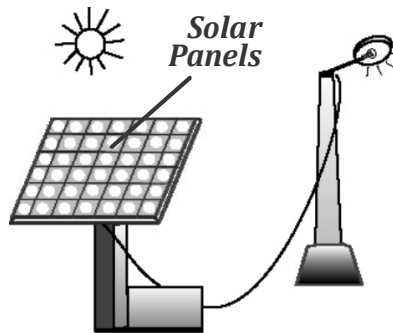
- (A) Only X (B) Only Y
(C) Only Z (D) Both X and Z

6. Identify 'X'.



- (A) Saprophytes (B) Xerophytes
(C) Thallophytes (D) Bryophytes

7. Which of the following energy changes takes place in the figure shown here ?

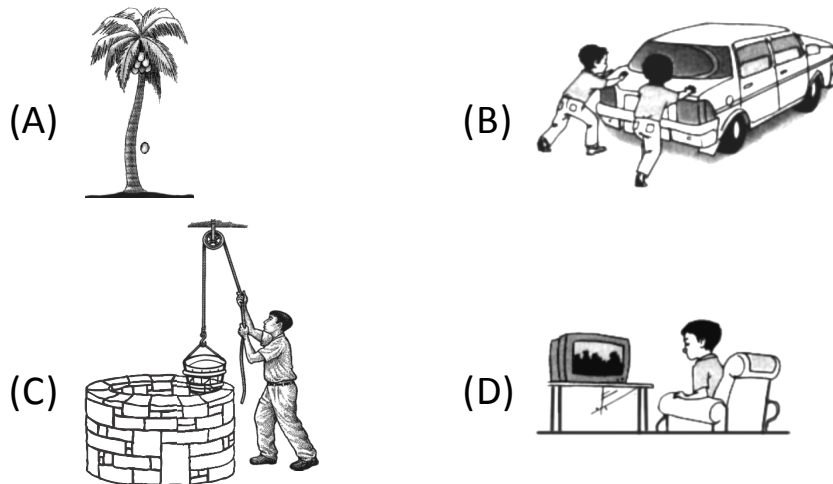


- (A) Light energy → Solar energy → Electrical energy
(B) Solar energy → Chemical energy → Light energy
(C) Solar energy → Electrical energy → Light energy
(D) Light energy → Electrical energy → Solar energy

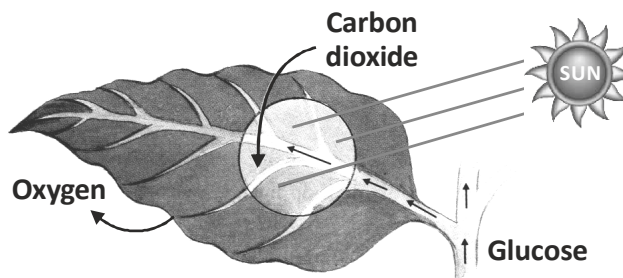
8. The disease Goitre is caused due to the lack of a certain class of food. Which of the following types of food should be consumed to reduce the risk of goitre ?

- (A) Rice (B) Orange
(C) Fish (D) Carrot

9. Which picture shows a pushing force ?



10. Abhi was asked to label the following diagram showing the process of photosynthesis. He labelled some parts incorrectly.



Which of the following shows incorrect labelling ?

- (A) Oxygen
- (B) Carbon dioxide
- (C) Glucose
- (D) All of these

11. The number from 1 to 7 were laid out in order to make an expression. Which option represents the correct placement of five $+$ operation cards.

$$\boxed{1} \text{ P } \boxed{2} \text{ Q } \boxed{3} \text{ R } \boxed{4} \text{ S } \boxed{5} \text{ T } \boxed{6} \text{ U } \boxed{7} = 55$$

- (A) P, Q, S, T, U (B) P, Q, R, S, T
(C) P, Q, R, S, U (D) P, R, S, T, U
12. Read the clues given.
- My uncle and aunt have different jobs. One is a driver, and the other works in an office.
 - My parents and aunt has never driven a car.
 - My dad and uncle share automobile business.
- What is my uncle's occupation ?

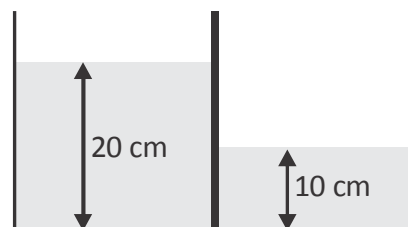
- (A) Employee (B) Driver
(C) Business (D) None of these

13. How would the 4th drawing look like ?



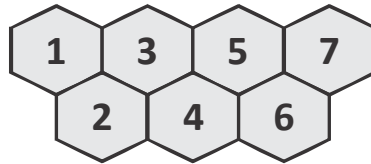
- (A) (B) (C) (D)

14. In a water tank, a solid board was placed in the middle and water was poured into the two sides. If the board is taken out, what would the height of the water be in cm?



- (A) 15 (B) 30 (C) 20 (D) 25

15. A bee wants to move from **1** to **7**. Each time the bee moves. It can only move adjacently to a greater number. How many ways are there for the bee to move to **7** ?



- (A) 12 (B) 10 (C) 15 (D) 13



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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Solutions for Class : 4

MATHEMATICS

13. (A) Option (A) could be the three pieces of the cube when it is separated into three pieces.
15. (D) Breadth of the rectangle = 40 cm
Length = 3 × breadth = (3 × 40) m = 120 m
∴ Perimeter = 2(l + b) = 2(40 + 120)
= 2 × 160 = 320 mts.
29. (C) Only shape Z has a square shaped face.



31. (C) The word **DAD** given in option (C), is not symmetrical along the dotted line.
34. (C) Total number of students = 120 + 120 + 80 + 180 = 500
No. of students who scored less than 70 marks = 120 + 120 = 240
∴ The required fraction = $\frac{240}{500} = \frac{12}{25}$

GENERAL SCIENCE

69. (B) The given plants are classified based on habit as xerophytes or desert plants.
72. (C) Solar energy → Electrical energy → Light energy.
89. (C) Fish is rich in iodine. Iodine prevents the risk of goitre.
51. (B) Figure in Option (B) shows pushing force.

67. (C) Oxygen is given out of the leaf during photosynthesis. Carbon dioxide is taken in and glucose is made in leaves and transported to other parts of plant. The arrow marks should be pointed away from leaf and not towards the leaf.

CRITICAL THINKING

57. (A)
58. (B)
60. (D)
59. (A)
60. (D)