

1. Study the following.

$$\text{pen} + \text{pen} = ₹ 12$$

$$\text{book} + \text{pencil} = ₹ 16$$

$$\text{pen} + \text{pencil} = ₹ 10$$

How much does a book cost ?

- (A) ₹ 4      (B) ₹ 6      (C) ₹ 12      (D) ₹ 16

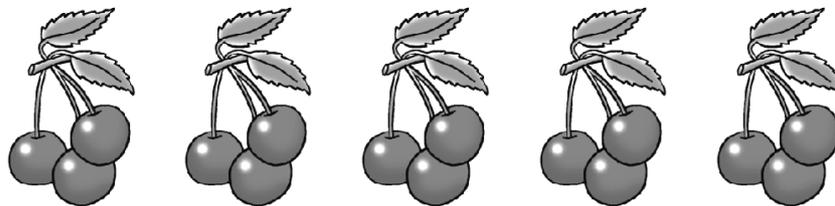
2. Observe the following. How much does each banana cost ?

$$3 \text{ ice creams} = ₹ 30 ; \quad 2 \text{ ice creams} + 1 \text{ lollipop} = ₹ 28 ;$$

$$1 \text{ lollipop} + 2 \text{ bananas} = ₹ 18 ;$$

- (A) ₹ 5      (B) ₹ 8      (C) ₹ 10      (D) ₹ 18

3. Which of the following is the multiplication sentence for the group in the figure ?



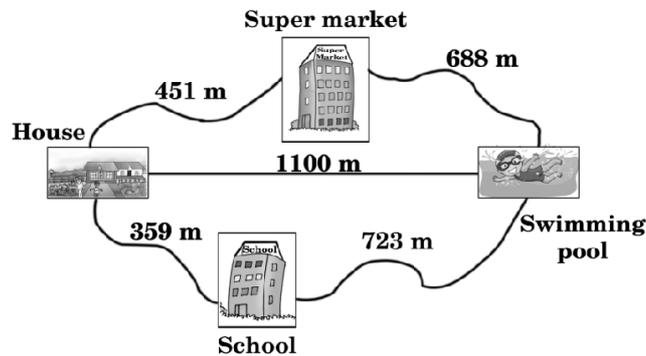
- (A)  $5 \times 1 = 5$                       (B)  $5 \times 2 = 10$   
(C)  $5 \times 4 = 20$                       (D)  $5 \times 3 = 15$

4. What is the missing number ?

30	45	28	35
60	90	56	?

- (A) 50      (B) 65      (C) 70      (D) 86

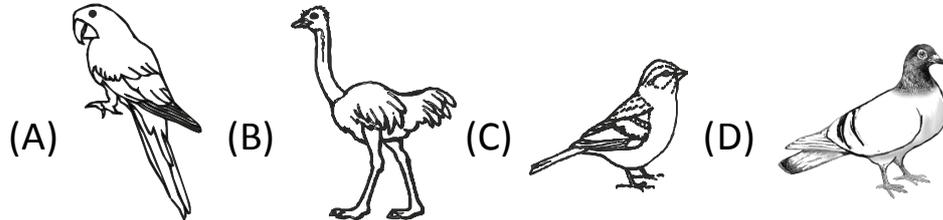
5. Bhanu wants to go to the swimming pool from his house.



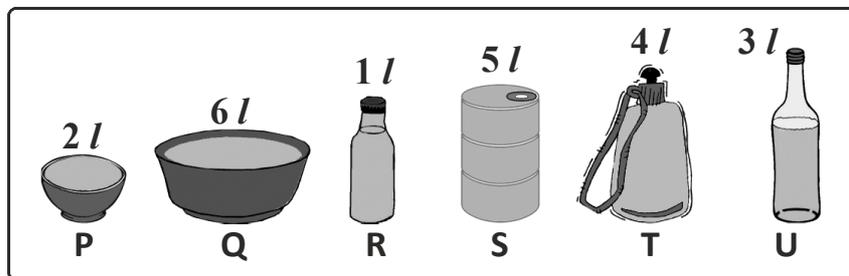
If he took the longest route shown in the given figure, how many metres would he travel ?

- (A) 1139 m    (B) 1082 m    (C) 1100 m    (D) 1174 m

6. Find the odd one.



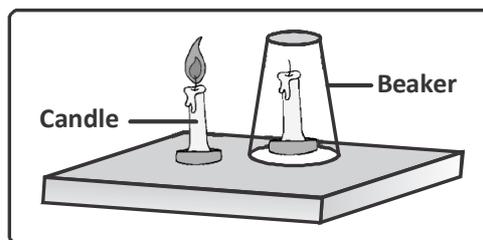
7. Sania has a jug of orange juice. of 15 liters capacity. She poured all the orange juice into 3 of the 6 containers as shown below.



The 3 containers Sania used are

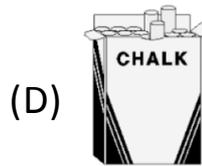
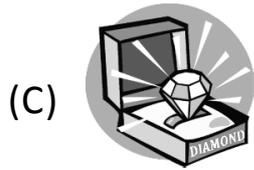
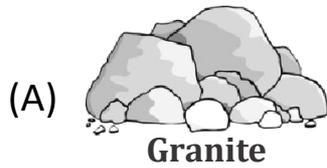
(A) P, Q, S (B) Q, R, S (C) S, T, U (D) Q, S, T

8. What do you know from the given experiment ?

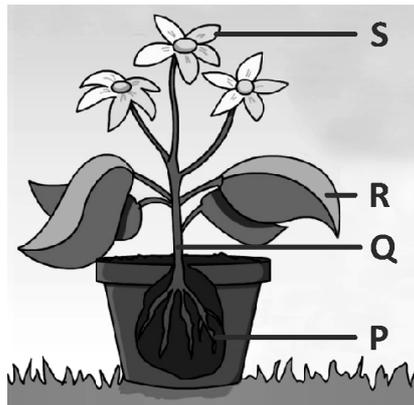


(A) Air moves things. (B) Air is needed for burning.  
(C) Air occupies space. (D) Air has weight.

9. Which of the following on burning gives out heat and energy ?



10. Which labelled part of the plant can grow into a fruit ?



(A) P

(B) Q

(C) R

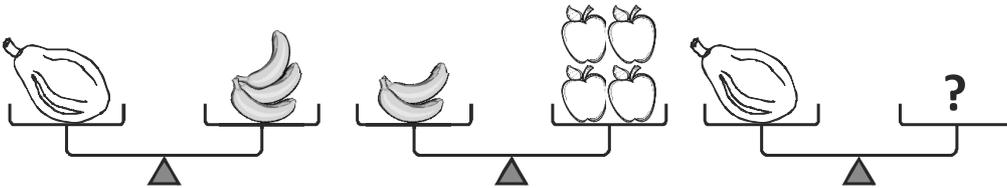
(D) S

11. Find the value of ●

$$\bullet + \bullet + \bullet + \bullet + \bullet + \bullet + \bullet = 3\bullet$$

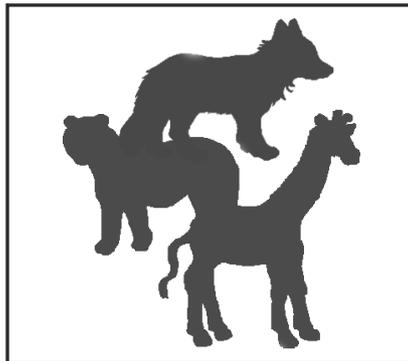
- (A) 7      (B) 6      (C) 5      (D) 4

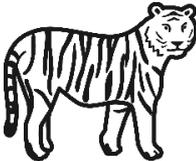
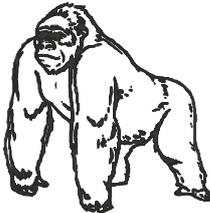
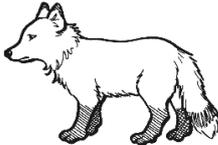
12. How many apples is equal to weight of papaya ?



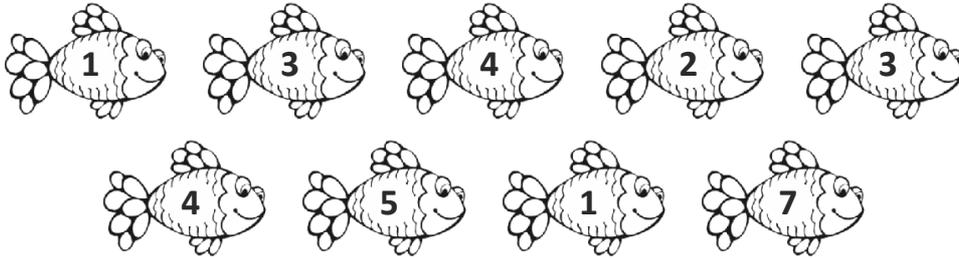
- (A) \_      (B) \_      (C) \_      (D) \_

13. Which animal is not seen in the shadow ?



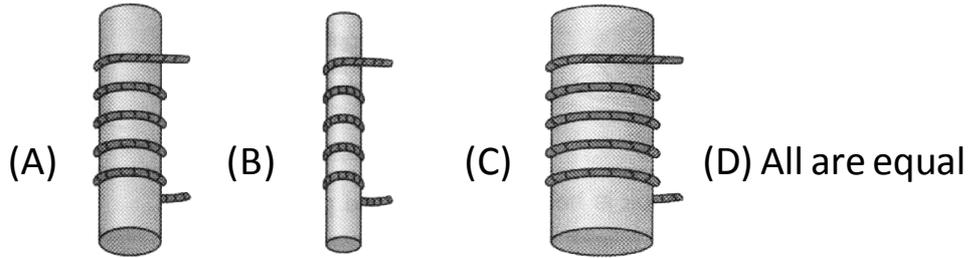
- (A)       (B) 
- (C)       (D) 

14. Three fishes need to be caught to make 10. How many no. of groups in 3's can be made to make 10.



- (A) 4      (B) 2      (C) 3      (D) 5

15. Which picture shows the longest rope ?





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## NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

### Solutions for Class : 3

#### MATHEMATICS

1. (C) Cost of 2 pens = ₹12  
⇒ Cost of 1 pen = ₹ 6  
Cost of (pen + pencil) = ₹ 10  
⇒ Cost of 1 pencil =  $10 - 6 = ₹ 4$   
Now, cost of Book + Pencil = ₹ 16  
⇒ Cost of Book =  $16 - 4 = ₹ 12$
2. (A) The cost of 3 ice-creams  
= ₹ 30  
∴ The cost of an ice-cream  
= ₹  $30 \div 3 = ₹ 10$   
The cost of a cherry = ₹  $(28 - 2 \times 10) = ₹ 8$   
The cost of a banana  
 $\frac{₹ (18 - 8)}{2} = \frac{10}{2} = ₹ 5$
3. (D)  $5 \times 3 = 15$
4. (C)  $30 \times 2 = 60$ ;  $45 \times 2 = 90$   
 $28 \times 2 = 56$ ;  $35 \times 2 = 70$   
Answer is option (C).
5. (A) Routes from Bhanu's house to swimming pool:
  - i) Direct route : 1100 m
  - ii) Through the school :  $359 \text{ m} + 723 \text{ m} = 1082 \text{ m}$
  - iii) Through the super-market :  $451 \text{ m} + 688 \text{ m} = 1139 \text{ m}$   
 $1139 > 1100 > 1082$∴ If Bhanu takes the longest route, he would travel 1139 m.

#### GENERAL SCIENCE

6. (B) Ostrich is a flightless bird.
7. (D) Liquids has no definite shape but has fixed volume. Containers Q = 6 l, S = 5 l, T = 4 l. Total 15 litres in which Sania poured the orange juice.
8. (B) Air is needed for burning.
9. (B) Coal on burning gives out heat and energy.
10. (D) In the given figure part labelled as S is a flower. Flower grows into fruit.

#### CRITICAL THINKING

11. (C)
12. (B)
13. (B)
14. (C)
15. (C)