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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)