



## Olympiad Aptitude Test Mathematics- Grade V

1. In a city, age of 34768 people is below 20, age of 57498 people is between 20 and 30 and age of remaining people is above 30. If the total population of the village is 100000, then the number of people who are above 30, is

(a) 92266      (c) 65232  
(b) 42502      (d) 7734

2. There are 15 rows of mango trees in a farm. Each row has 325 trees. Trees of 6 rows are cut down. The total number of remaining mango trees in the park is

(a) 2925      (b) 4875  
(c) 1950      (d) None of these

3. The smallest correctly formed roman number using each numeral once from the roman numerals I, V, X, L, C, D and M is

(a) MDCLXVI      (b) MCDXLIV  
(c) MCDXLVI      (d) Can't be determined

**Direction : The score of players in video game is given below:**

|     |      |      |      |     |
|-----|------|------|------|-----|
| Ken | Shim | Rose | Jack | Den |
| 75  | 46   | 54   | 72   | 89  |
| 100 | 50   | 60   | 100  | 100 |

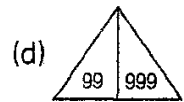
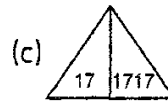
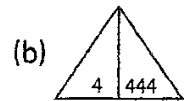
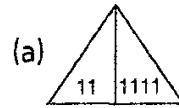
4. Who scored the highest?

(a) Ken      (b) Rose  
(c) Shim      (d) Den

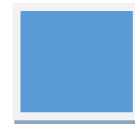
5. What is difference between the score of the winner and the loser?

a.  $1/5$       b.  $14/20$   
b.  $13/100$       d.  $15/40$

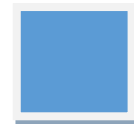
6. In the following figure, one of the figure is different from other, choose the odd one out.



7. A wire is cut into several smaller pieces. Each of the smaller pieces is bent into two squares. The perimeter of square I and area of square II are as follow



I.  
**8cm**



II.  
 **$16\text{cm}^2$**

What is the length of the wire?

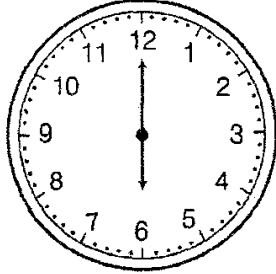
(a) 20 cm      (b) 12 cm  
(c) 24 cm      (d) 18 cm

8. Bandy needs to make rectangular invitation cards for her birthday party. She has to cut a square sheet of poster board measuring 12 inch on each side. What is the greatest number of cards that Bandy can make?



(a) 14      (b) 16  
(c) 18      (d) 24

9. The hour hand of the clock given below is turned  $90^\circ$  clockwise and then  $180^\circ$  anti-clockwise. Which angle will be formed by the minutes and hour hands of the clock after rotation?



- (a)  $45^\circ$                       (b)  $90^\circ$   
 (c)  $180^\circ$                       (d) None of these
10. Jessy was 1m 25cm tall last year. This year, he is 12cm taller. How much taller is Jessy than Teresa now, if Teresa is 1m 8cm tall?
- a. 10 cm                      b. 25 cm  
 c. 29 cm                      d. 10 cm
11. A rectangular field has a perimeter of 64 m. The ratio of its length to its breadth is 5 : 3. Find the area of the field.  
 (A) 120 m<sup>2</sup>                      (B) 360 m<sup>2</sup>  
 (C) 240 m<sup>2</sup>                      (D) 480 m<sup>2</sup>
12. Water in a vessel is at a temperature of  $38.5^\circ\text{C}$ . By how much its temperature must be increased so as to boil it?  
 (A)  $38.5^\circ\text{C}$                       (B)  $100^\circ\text{C}$   
 (C)  $61.5^\circ\text{C}$                       (D)  $82.5^\circ\text{C}$
13. What is the H.C.F. of 120, 144 and 216?  
 (A) 38                      (B) 24  
 (C) 120                      (D) 144
14. How many thousandths more than 7.04 is 7.54?  
 (A) 5                      (B) 50  
 (C) 500                      (D) 5000

15. 27<sup>th</sup> February 2014 was a Wednesday. What day was 27<sup>th</sup> March, the same year?  
 (A) Sunday                      (B) Wednesday  
 (C) Monday                      (D) Friday

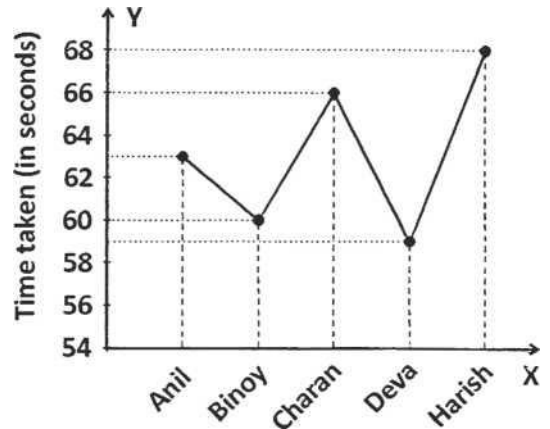
16. Which of the following is the set of Roman numerals used to write the equivalent of 2014?  
 (A) M, X, V, I                      (B) D, X, L, I  
 (C) M, D, L, V                      (D) M, L, X

17. Find the missing number.

|                  |
|------------------|
| $5 : 9 = 45 : ?$ |
|------------------|

- (A) 81                      (B) 40  
 (C) 5                      (D) 14

18. The line graph shows the time taken by 5 boys to run a race.



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