



4. Find the value of  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$
- a)  $\frac{172}{75}$       b)  $\frac{140}{29}$       c) 1      d) 98
5. If the mean of 26, 28, 25, x, 24 is 27, find the value of x.
- a) 35      b) 40      c) 32      d) 56
6. Out of 5 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?
- a) Mean      b) Mode  
c) Median      d) Any of the three
7. Khilona earned scores of 97, 73 and 88 respectively in her first three examinations. If she scored 80 in the fourth examination, then her average score will be
- a) increased by 1      b) increased by 1.5  
c) decreased by 1      d) decreased by 1.5
8. Find the length of a diagonal of a rectangle with dimensions 20m by 15m.
- a) 15 m      b) 25 cm      c) 15 cm      d) 25 m
9. If  $8x - 3 = 25 + 17x$ , then x is
- a) A fraction      b) An integer  
c) A rational number      d) Cannot be solved

10. Linear equation in one variable has
- a) Only one variable with any power  
b) Only one term with a variable  
c) Only one variable with power 1  
d) Only constant term
11. For constructing a unique quadrilateral at least \_\_\_\_\_ measurements are required.
- a) Four      b) Three      c) Five      d) Six
12. If three angles of a quadrilateral are each equal to  $75^\circ$ , the fourth angle is
- a)  $150^\circ$       b)  $135^\circ$       c)  $45^\circ$       d)  $75^\circ$
13. Euler's formula for any polyhedron is, \_\_\_\_\_ Where F stands for number of faces, V for number of vertices and E for number of edges.
- a)  $F + V + E = 2$       b)  $F + V - E = 2$   
c)  $F \times V - E = 2$       d)  $F + V - E = (-2)$
14. The distance between City A and City B on a map is given as 6 cm. If the scale represents 1 cm = 200 km, then the actual distance between City A and City B is
- a) 1200km      b) 1200m      c) 300km      d) 300m
15. The product of a monomial and a binomial is a
- a) Monomial      b) binomial      c) trinomial      d) none of these
16. Multiplicative inverse of  $2^7$  is
- a)  $2^{-7}$       b)  $7^2$       c)  $-2^7$       d)  $-7^2$