

- 1) Divide 1870 into three parts in such a way that half of the first part, one-third of the second part and one-sixth of the third part are equal.
- 241, 343, 245
 - 400, 800, 670
 - 470, 640, 1160
 - None of these
- 2) If $6x^2 + 6y^2 = 13xy$, what is the ratio of $x:y$?
- 1:4
 - 3:2
 - 4:5
 - 1:2
- 3) Divide 500 among A, B, C and D so that A and B together get thrice as much as C and D together, B gets four times of what C gets and C gets 1.5 times as much as D. Now the value of what B gets is
- 300
 - 75
 - 125
 - 150
- 4) If a, b, c, d are proportional, then $(a - b)(a - c)/a =$
- $a + c + d$
 - $a + d - b - c$
 - $a + b + c + d$
 - $a + c - b - d$
- 5) If a, b, c and d are proportional then the mean proportion between $a^2 + c^2$ and $b^2 + d^2$ is
- ac/bd
 - $ab + cd$
 - $a/b + d/c$
 - $\frac{a^2}{b^2} + c^2/d^2$
- 6) The speeds of three cars are in the ratio 2:3:4. The ratio between the times taken by these cars to travel the same distance is
- 2:3:4
 - 4:3:2
 - 4:3:6
 - 6:4:3
- 7) The present ratio of ages of A and B is 4:5. 18 years ago, this ratio was 11:16. Find the sum total of their present ages.
- 90 years
 - 105 years
 - 110 years
 - 80 years
- 8) Four numbers in the ratio 1:3:4:7 add up to give a sum of 105. Find the value of the biggest number.
- 4
 - 35
 - 4
 - 63
- 9) After an increment of 7 in both the numerator and denominator, a fraction changes to $3/4$. Find the original fraction.
- $5/12$
 - $7/9$
 - $2/5$
 - $3/8$
- 10) The difference between two positive numbers is 10 and the ratio between them is 5:3. Find the product of the two numbers.
- 375
 - 175
 - 275
 - 125

Answers:

- 1 – D
- 2 – B
- 3 – A
- 4 – B
- 5 – B

6-D

7-A

8-C

9-C

10-A

