

SIMPLIFICATION

1) $63 \times 47 \times 53 \times 63$ is equal to

a) 6300 b) 630 c) 3339 d) 2961 Ans: a

2) $\frac{0.88 \times 0.88 - 0.87 \times 0.87}{0.87 + 0.87} = ?$

a) 0.1 b) 0.01 c) 0.175 d) 17.5 Ans : b

3) $(0.3 \times 0.3 + 0.2 \times 0.2 + 0.12) - (0.3 \times 0.3 + 0.2 \times 0.2 - 0.12)$ is equal to

a) 24 b) 2.4 c) 0.24 d) 0.25 Ans: c

4) $\frac{0.7 \times 0.7 \times 0.7 - 0.3 \times 0.3 \times 0.3}{0.7 \times 0.7 - 0.7 \times 0.3 + 0.3 \times 0.3} = ?$

a) 0.1 b) 10 c) 1 d) None of the above Ans: c

5) $\frac{\left(\frac{2}{3} + 1\frac{1}{3}\right)^3}{\left(\frac{2}{3} + 1\frac{1}{3}\right)^2} = ?$

a) 48 b) 80 c) $\frac{1}{4}$ d) 4 Ans: d

6) The value of $\frac{1}{2} + \frac{1}{2 \times 3 \times 4} + \frac{1}{2 \times 3 \times 4 \times 5}$ upto three places of decimals is

a) 0.715 b) 0.716 c) 0.717 d) 0.718 Ans : c

7) Which of the following is the same as 85×65 ?

- a) $85 \times 45 + 21 \times 65 + 5 \times 1$
- b) $85 \times 40 + 85 \times 15 + 85 \times 15$
- c) $30 \times 55 + 45 \times 10 + 15 \times 1$
- d) None of the above Ans : d

8) The number of prime factors in the product

$(6)^{10} \times (17)^{17} \times (11)^{27}$ is

a) 54 b) 64 c) 71 d) 81 Ans : b

9) The square root of

$\frac{16.9 - 72.9}{0.36 + 0.81}$ is

a) 0.65 b) 6.5 c) 65 d) 650 Ans : b

10) $\sqrt{10 + \sqrt{25 + \sqrt{121}}}$ is equal to

a) $(2)^2$ b) 9^2 c) $(16)^2$ d) None of the above Ans : a