EduSahara™ Learning Center Assignment

Grade : Class VI, ICSE
Chapter : Ratio and Proportion
Name : Proportion Concepts
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1. Find the product of extremes of 18 : 20 and 4 : 18

   (i) 322 (ii) 327 (iii) 80 (iv) 324 (v) 323

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2. Find the product of extremes of $\frac{16}{15} : \frac{3}{11}$ and $\frac{4}{5} : \frac{17}{9}$

   (i) $\frac{272}{135}$ (ii) $\frac{12}{55}$ (iii) $\frac{272}{133}$ (iv) 2 (v) $\frac{274}{135}$

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3. Find the product of means of 15 : 4 and 18 : 6

   (i) 71 (ii) 72 (iii) 75 (iv) 70 (v) 90

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4. Find the product of means of $\frac{3}{2} : \frac{7}{5}$ and $\frac{11}{9} : \frac{19}{18}$

   (i) $\frac{5}{3}$ (ii) $\frac{19}{12}$ (iii) $\frac{79}{45}$ (iv) $\frac{77}{43}$ (v) $\frac{77}{45}$

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5. Which of the ratios is proportional to 27 : 3 ?

   (i) 27 : 6 (ii) 28 : 3 (iii) 27 : 3 (iv) 26 : 3 (v) 27 : 1

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6. Find the missing value in the equation ____ : 1 = 68 : 2

   (i) 37 (ii) 35 (iii) 34 (iv) 33 (v) 32

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7. Find the missing value in the equation 15 : ____ = 45 : 3

   (i) 3 (ii) 0 (iii) 2 (iv) (-2) (v) 1

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8. Find the missing value in the equation 57 : 1 = ____ : 5

   (i) 287 (ii) 286 (iii) 284 (iv) 282 (v) 285

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9. Find the missing value in the equation 40 : 10 = 8 : ____

   (i) 3 (ii) 5 (iii) 0 (iv) 1 (v) 2

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10. Find the number which bears the same ratio to $\frac{1}{2}$ that $\frac{2}{4}$ does to $\frac{1}{3}$

(i) $\frac{3}{4}$ (ii) $\frac{1}{4}$ (iii) $\frac{3}{2}$ (iv) $\frac{1}{2}$ (v) $\frac{5}{4}$

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11. If $a : b :: c : d$, then

(i) $ab = cd$ (ii) $abc = bcd$ (iii) $ac = bd$ (iv) $ad = bc$

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12. The ratio 5 : 3 is proportional to which of the following ratios ?

(i) 15 : 9 (ii) 20 : 6 (iii) 25 : 18 (iv) 10 : 12 (v) 30 : 15

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13. Which of the following represents a proportion ?

(i) 29 : 36 :: 58 : 108

(ii) 27 : 34 :: 81 : 136

(iii) 26 : 33 :: 104 : 99

(iv) 28 : 35 :: 140 : 175

(v) 30 : 37 :: 90 : 74

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14. Which of the following does not represent a proportion ?

(i) 12 : 15 :: 48 : 60

(ii) 12 : 14 :: 36 : 42

(iii) 12 : 16 :: 60 : 80

(iv) 21 : 24 :: 42 : 48

(v) 5 : 6 :: 10 : 18

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15. If 30 : 24 :: 20 : x , find 'x'

(i) 15 (ii) 17 (iii) 13 (iv) 19 (v) 16

Assignment Key

1) (iv)
2) (i)
3) (ii)
4) (v)
5) (iii)
6) (iii)
7) (v)
8) (v)
9) (v)
10) (i)
11) (iv)
12) (i)
13) (iv)
14) (v)
15) (v)