Ratio & Proportion Worksheet – 1

1. If p : q = 3 : 5, then 5p : 3q = _____.

a)   3 : 5

b)   5 : 3

c)   1 : 1

d)   None of these

2. $\frac{1}{20} : \frac{1}{80}$ = _____.

a)   4 : 1

b)   1 : 4

c)   5 : 1

d)   1 : 5

3. What is the simplest form of 36 : 84?

a)   7 : 3

b)   3 : 7

c)   3 : 5

d)   2 : 7

4. Express the following ratios in simplest form.

`75 paise : 2 Rupees

a)   8 : 3

b)   3 : 5

c)   3 : 8

d)   5 : 3

5. Express the following ratios in simplest form.

8 month : 2 years

a)   4 : 7

b)   7 : 4

c)   3 : 1

d)   1 : 3

6. Express the following ratios in simplest form.

525 grams : 2.5 liters

a)   3 : 5

b)   4 : 5

c)   5 : 4

d)   None of these

7. If A : B = 3 : 4 and B : C = 7 : 12, find A : C.

a)   7 : 9

b)   7 : 16

c)   16 : 7

d)   9 : 7

8. If P : Q = 5 : 6 and Q : R = 4 : 7, find P : Q : R.

a)   10 : 12 : 20

b)   10 : 14 : 21

c)   10 : 12 : 21

d)   None of these

9. Divide Rs. 3500 between Pradeep and Prakash in the ratio 3 : 4. How much money both will get?

a)   Pradeep = Rs. 1500 and Prakash = Rs. 2000

b)   Pradeep = Rs. 2500 and Prakash = Rs. 1000

c)   Pradeep = Rs. 2000 and Prakash = Rs. 1500

d)   Pradeep = Rs. 1000 and Prakash = Rs. 2500

10. Divide 30 kg apple between John, Bob, and Michael in the ratio 2 : 3 : 5.

a)   John = 9 kg, Bob = 6 kg, and Michael = 15 kg

b)   John = 6 kg, Bob = 9 kg, and Michael = 15 kg

c)   John = 15 kg, Bob = 9 kg, and Michael = 6 kg

d)   None of these

11. What numbers must be added to each term of the ratio 18 : 32 to make 2 : 3?

a)   2   b)   5

c)   8   d)   10

12. Which ratio is greater:

5 : 7 or 3 : 5

a)   3 : 5   b)   5 : 7

c)   Both are same   d)   None of these

13. A man earns Rs. 300 daily. He spends Rs. 90 and rest of the money he saves. Find the ratio of his saving to income.

a)   8 : 10   b)   10 : 8

c)   7 : 10   d)   10 : 7

14. Rs. 180 is divided among Julie, Jane, and Tina in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{6}$. Find the share of each girl.

a)   Julie = Rs. 90, Jane = Rs. 60, Tina = Rs. 30

b)   Julie = Rs. 60, Jane = Rs. 90, Tina = Rs. 30

c)   Julie = Rs. 30, Jane = Rs. 60, Tina = Rs. 90

d)   Julie = Rs. 90, Jane = Rs. 30, Tina = Rs. 60

15. A certain amount of money is divided into three parts in the ratio 4 : 6 : 10. If the lowest part is Rs. 250 then find the largest part.

a)   Rs. 265   b)   Rs. 625

c)   Rs. 526   d)   Rs. 652

16. Two numbers are in the ratio 4 : 5. When 2 is added to the first term and 3 is added to the second term, they are in the ratio 5 : 7. Find both the numbers.

a) $\frac{4}{3}$ and $\frac{3}{4}$ b) $\frac{5}{3}$ and $\frac{3}{5}$

c) $\frac{4}{3}$ and $\frac{5}{3}$ d)   None of these

17. The ratio of the present ages of John and Diana is 2 : 3. Five years latter, the ratio of their ages will be 3 : 4. Find their present age.

a)   John = 10 years and Diana = 12 years

b)   John = 15 years and Diana = 10 years

c)   John = 12 years and Diana = 15 years

d)   John = 10 years and Diana = 15 years

18. Ratio is a number, so it has got no units. Mark True / False.

a)   True   b)   False

19. If 'a' and 'b' are two different quantities, then their ratio would be a : b. Mark True / False.

a)   True   b)   False

20. To compare two ratios, we must convert them into mixed fractions. Mark True / False.

a)   True   b)   False