RATIO AND PROPORTION WORKSHEETS

1. If
   X / Y = 3 / 5, find (3X + 4 Y) / ((5X - 2Y)
   (a) 8/9   (b) 13/11   (c) 15/17   (d) 29/5   (e) 7/6

2. Two numbers are in the ratio 9 : 8. If 14 is
   subtracted from each, the new ratio is 8 : 7. Find
   the numbers.
   (a) 90, 70   (b) 27, 35   (c) 36, 32   (d) 54, 63
   (e) 18, 25

3. There are three numbers. 5 times the first and 6
   times the second are equal. 3 times the second and 2
   times the third are also equal. If the first number
   is 20 more than the third, find the third number.
   (a) 75   (b) 100   (c) 50   (d) 60   (e) 800

4. If a : b = 2 : 1, b : c = 3 : 5, c : d = 4 : 5 and
   e : d is 6 : 5. Find a : b : c : d : e
   (a) 24 : 12 : 10 : 25 : 30   (b) 24 : 12 : 20 : 25 : 30
   (c) 24 : 12 : 10 : 5 : 6   (d) 24 : 12 : 10 : 25 : 6

5. A person distributed $ 2000 among three persons A,
   B and C. If A gets thrice as much as C and B
   gets twice. Find the ration of A, B and C
   (a) 1 : 2 : 3   (b) 2 : 1 : 3   (c) 3 : 2 : 1
   (d) 1 : 2 : 1

6. One number is 20% more, another number is 20% less
   than the third number. Find the ration of the two
   numbers.
   (a) 2 : 5   (b) 3 : 2   (c) 4 : 5   (d) 6 : 7

7. An alloy is to contain tin and zinc is in the ratio 4 : 7. The zinc required to be melted with 24kgs of tin is_____ .

8. If P : Q = 7 : 8, What is the value of P − 7 : Q − 8 ?

9. If a : b : c = 3 : 4 : 5, then what is the value of (a + b) : (b + c) .

10. If a/b = 4/5 and p/q = 2/3, then find (3ap-bq) / (2ap + 3bq)

11. Find the fourth proportion of 4, 9 & 12
    (a) 18   (b)36   (c) 72   (d 27   (e) 24

12. Find the third proportion of 24 and 48
    (a) 81   (b) 144   (c) 96   (d) 64   (e) 100

13. The ratio of third proportion to 12 and 30 and the mean proportion between 9 and 25 is:
    (a) 2 : 1   (b) 5 : 1   (c) 7 : 15   (d) 9 ; 14

14. If 5 students can finish a project in 12 days, find the time taken by 3 students to complete the same project.
    (a) 20 days   (b) 9 days   (c) 10 days   (d) 6 days

15. Area of circle varies as the square of its radius. Given that the area of the circle is 154 sq units, when the radius is 7 units. Find the area of the circle in sq. Units when the radius is 3.5units.
    (a) 77   (b) 38.5   (c) 75   (d) 67

16.   X varies inversely as square of Y. Given that y = 2 for x = 1. The value of x for y = 6 will be equal to :

(a) 3   (b) 9   (c) 1/3   (d) 1/9

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1)	(d) 29/5
2)	(c) 36, 32
3)	(d) 60
4)	(b) 24 : 12 : 20 : 25 : 30
5)	(c) 3 : 2 : 1
6)	(b) 3 : 2

7)	42 kgs
8)	7 : 9
9)	7 : 9
10)	8 / 61
11)	(d) 27
12)	(c) 96
13)	(b) 5 : 1

14)	(14). (a) 20 days
15)	(15). (b) 38.5
16)	(16). (c) 1/3

FUN FACT

1. Proportions are often used in day to day business world. Demand and price are in direct proportion, and production and price of a commodity are in inverse proportion.
2. Ratio of water and land on the earth is 29 : 71.
3. Ratio of Mass of Proton to Electron is 1.8×10^3.