INTERNATIONAL INDIAN SCHOOL, RIYADH.

MATHEMATICS WORKSHEET- (2017 - 2018) / Class: VI

CHAPTER 12 – RATIO AND PROPORTION

1. The ratio of Rs. 8 to 20 paise is _____.

2. If the ratio between two quantities is 10: 3 and the first quantity is 300, then the second quantity is _____.

3. The value of x in the proportion 15 : 13 = 225 : x is _____.

4. If two _____ are equal, we say that they are in proportion.

5. In proportion first and the last terms are called _____.

6. Find which of the following are in proportion.
   i) 15, 18, 35, 42
   ii) 4,   8, 16, 32
   iii) 60, 45, 42, 30
   iv) 5,   7, 25, 35

7. Compare the following ratios.
   i) 1 : 5   and 3 : 17
   ii) 5 : 13 and 2 : 5
   iii) 2 : 15 and 4 : 7
   iv) 11 : 9   and 3 : 5

8. Find the ratios of the following.
   i) 45 kg to 180 kg
   ii)   4 cm to 5 m
   iii) 3.6 m to 54 m
   iv) 70 minutes to 210 seconds
   v) 25 paise to Rs 50

9. Express each one of the following ratios in its simplest form
   i) 50 : 150
   ii) 25 : 40
   iii) 70 : 42
   iv) 450 : 270
   v) 16 : 18

10. The cost 60 pens is Rs. 540. Find the cost of 9 pens.

11. A car travels 30 kms in 1 hour and a bus travels 40 kms 2 hrs. Find the ratio of their speed.

12. Two numbers are in the ratio 3 : 5, their sum is 160. Find the two numbers.

13. In a class there are 30 girls and 36 boys. Find the ratio of boys to girls.

14. In a box containing 70 bulbs, 25 were found to be defective. Find the ratio of defective bulbs to good bulbs.

15. The ratio of the number of male teachers to female teacher in a school is found to be 3 : 2. If there are 30 male teachers, Find the number of female teachers.

16. Divide Rs. 3500 among A, B and C in the ratio 3 : 2 : 2.

17. If 2, x, 30 and 45 are in proportion. Find the value of x.

18. Find **a**, if the quantities 4, 5, 16, **a** are in proportion.

19. A person saves Rs. 12,522 in one year. How much does he save in 3 months?

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ANSWER KEY

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1. 40 : 1
2. 90
3. 195
4. Quantities
5. Extreme terms
6. i) Yes   ii) Yes   iii) No   iv) Yes
7. i) >   ii) <   iii) <   iv) >
8. i) 1 : 4   ii) 1 : 125   iii) 1 : 15   iv) 20 : 1   v) 1: 200
9. i) 1 : 3   ii) 5 : 8   iii) 5 : 3   iv) 5 : 3   v) 8 : 9
10. Rs. 81
11. 3 : 2
12. 6 and 10
13. 6 : 5
14. 5 : 9
15. 20
16. 1500, 1000, 1000
17. $x = 3$
18. $a = 20$
19. Rs. 3,130.50