

DAV PUBLIC SCHOOL, NIMAPARA
SUBJECTS- MATHEMATICS, CLASS-VI
CHAPTER-4 (RATIO,PROPORTION,AND UNITARY METHOD)
WORKSHEET(BASIC)

TIME-45 Min.

MAX.MARK- 20

Choose the correct option: (1x2=2)

1. The ratio of one dozen to one score is ____.
a. 5:3 b. 2:3 c. 3:2 d. 3:5
2. The cost of six chocolates is Rs. 210, then the cost of four chocolates is ____
a. Rs 90 b. Rs. 120 c. Rs. 140 d. Rs. 100

Fill in the blanks : (1x2=2)

3. The Ratio of even numbers to odd number in a set of natural numbers from 1 to 25 is_____
4. Four numbers are proportion , if the product of _____ should be equal to product of _____.

Answer the following. : (1x2=2)

5. Express the Ratios in the simplest form.
45 minutes to 4 hours.
6. Check whether the following ratios are in proportion or not.
8 m:21m and Rs. 24: Rs 63

Short Answer type question I : (2x2=4)

7. Find the value of the X in the following proportion.
27 : x :: 63 : 84.
8. If the cost of 14 m of cloth is Rs. 1890, find the cost of 6 m of cloth.

Short Answer type question II : (3x2=6)

9. Manoj weight is 36 kg . His brother weight is 2 kg more . Find the Ratio of weight of manoj ' s

brother to manoj .

10. Arun earns Rs. 390000 per year . Find his earnings for 25 weeks.

Long Answer type question : (1x4=4)

11. The Ratio of the number of male and female in a textile mill is 5:3.If there are 115 male workers , what is the number of female workers in the mill.

DAV PUBLIC SCHOOL, NIMAPARA
SUBJECTS- MATHEMATICS, CLASS-VI
CHAPTER-4 (RATIO,PROPORTION,AND UNITARY METHOD)
WORKSHEET(STANDARD)

TIME-45 Min.

MAX.MARK- 20

Choose the correct option: (1x2=2)

1. The value of m,if 3, 18,m , 42 are in proportion is :

a. 6 b. 54 c. 7 .d.none of these.

2. 7:12 is equivalent to :

a. 28:40 b. 42:71 c. 72:42 d. 42:72

Fill in the blanks. (1x2=2)

3. A Ratio is a form of comparison by _____.

4. **Ratio** of 5 paise to 25 paise is the same as the ratio of 20 paise to _____.

Answer the following. : (1x2=2)

5. Are the following numbers in continued proportion.

36, 90, 75

6. The ratio of 10 cm to 10 mm is?

Short Answer type question I : (2x2=4)

7. Which of the following pairs is greater.

23:24 or 15:16

8. 4, x, 9 are in continued proportion, find the value of x.

Short Answer type question II : (3x2=6)

9. An office opens at 9 a.m and closes at 5 p.m with a lunch interval of 30 minutes. What is the ratio of lunch interval to the total period in office?

10. The length of a steel tape for measurements of buildings is 10 m and its width is 2.4 cm. What is the ratio of its length to width?

Long Answer type question : (1x4=4)

11. The number of boys and girls in a school are 1168 and 1095 respectively. Express the ratio of the number of boys to that of the girls in the simplest form.

DAV PUBLIC SCHOOL, NIMAPARA

SUBJECTS- MATHEMATICS, CLASS-VI

CHAPTER-4 (RATIO,PROPORTION,AND UNITARY METHOD)

WORKSHEET(ADVANCED)

TIME-45 Min.

MAX.MARK- 20

Choose the correct option: (1x2=2)

1. The ratio of 1 cm to 1 mm is -----.

(a) 1 : 10 (b) 10 : 1 (c) 1 : 100 (d) 100 : 1

2. Express In Simplest Form.

4 kg. to 250 gm.

Fill in the blanks : (1x2=2)

3. The first and fourth terms of a proportion are called ----- .

4. The ----- and ----- terms of a proportion are called means.

Answer The Followings : (1x2=2)

5. Determine if the following ratio in proportion.

48 kg : 6 kg and 25 g : 200g

6. Find the value of "X" so that the four numbers are in proportion.

15, X, 27, 36

Short Answer Type Questions I (2x2=4)

7. If 20% of X = 30% of Y, then X : Y = ?

8. Calculate the 3rd proportional to 16 and 32 ?

Short Answer Type Questions II (3x2=6)

9. Two numbers are in the ratio of 8 : 3 & their sum is 242. Find the difference between the two numbers ?

10. Arun earns Rs.4,00,000 per year. Find the earnings for 30 weeks ?

Long Answer Type Questions : (1x4=4)

11. The sides of two squares are in the ratio of 5 : 7. Find the ratio of their areas.

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SUBJECTS- MATHEMATICS, CLASS-VI

CHAPTER-4 (RATIO,PROPORTION,AND UNITARY METHOD)

WORKSHEET (HOTS)

1. Present ages of Rani & Kami are in the ratio of 5 :6 respectively. 7 Year hence, this ratio will become 6 : 7 respectively. What is Rani's present age ?

2. Two numbers are in the ratio of 3 : 5. If 9 is subtracted from each, the ratio becomes 12 : 23. Find the greater number ?
3. If 4, x, 9 are in continued proportion, find the value of x ?
4. 10 boys can dig a pitch in 12 hours. How long will 8 boys take to do it ?
5. A family consumes 30 kg of sugar in 15 days. How much sugar will be consumed in 275 days ?
6. Two numbers are respectively 20% and 50% more than a 3rd number. Find the ratio of two numbers ?
7. A finishes his work in 15 days while B takes 10 days. How many days will the same work be done if they work together?
8. Cost of 4 pens is Rs. 120 and 6 pencils is Rs. 60. If I want to purchase 6 pens and 2 pencils, how much should I pay ?
9. When 7 is added to the numerator and denominator of the fraction, then the new ratio of becomes 13 : 19, what is the original ratio ?
10. The ratio of age of krish and her mother is 5 : 12 and difference of their ages is 21. What will be the ratio of their ages after 3 years ?
11. A bullock cart travels 24 km in 3 hours & a train travels 120 km in 2 hrs. Find the ratio of their speeds ?
12. Ratio of A and B in the ratio of 5 : 8. After 6 years, the ratio of ages of A and B will be in the ratio of 17 : 26. Find the present age of B.
13. The ratio of the length of a vertical pole and its shadow on the ground is 7 : 2. Find the length of the pole, if the length of the shadow is 2.4 m.
14. The ratio of boys and girls in the school is 7 : 9, when 22 new boys are joined in this school then the ratio becomes 9 : 10. How many girls in this school ?
15. If $X : Y = 7 : 4$, then $(4X+7Y) : (7X+4Y)$?

