INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2023-24

CLASS : 6 / SUBJECT : MATHEMATICS LESSON – 12: Ratio and Proportion

- 1. Express 25 : 45 ratios into it's simplest form.
- 2. What is the simplest form of 32 : 24?
- 3. Find the simplest form of the given ratio 70 : 105.
- 4. Find the ratio of Rs. 35 to Rs. 175, convert it to it's simplest form.
- 5. Find the ratio of 75 paise to Rs. 5.
- 6. Find the ratio of 2 years to 6 months.
- 7. Find the ratio of 45 m to 1 km.
- 8. A packet of salt weighs 25 kg and a packet of sugar weighs 35 kg. Find the ratio of weight of salt to weight of sugar.
- 9. Out of 45 students in a class, 20 students are boys and the remaining are girls. Find the ratio of boys to girls and girls to boys.
- 10. Divide 50 kg rice between Bob and John in the ratio of 2 : 3.
- 11. Fill in the missing number

³/₅ = .../₃₅

12. Fill in the missing number

 $\frac{5}{9} = \frac{1}{81}$

- 13. The ratio of Julie's money to Pradeep's money is 4 : 6. If Julie has Rs. 500, how much money does Pradeep have?
- 14. Determine if the following ratio form a proportion.

25 cm : 1 m and Rs. 40 : Rs. 160

15. Determine if the following ratio form a proportion.

2 kg : 70 kg and 30 sec : 5 minutes

- 16. A rectangular field is 80 m long and 60 m wide. Find the ratio of it's length to perimeter.
- 17. . If the cost of 14m of cloth is Rs.1890 ,find the cost of 6m of cloth.
- 18. If the price of 5 kg potato is ₹ 150. Find the value of 24kg potato.
- 19. The length of the shadow of a 168 cm tall person at a particular time of day is 252 cm. What will be the length of the shadow of a 158 cm tall person at the same time of the day?

Solution:

Length of shadow for 168 cm = 252 cm

Length of the shadow for 1 cm = 252/168 = 1.5 cm

Length of the shadow for 158 cm = $1.5 \times 158 = 237$ cm.

Therefore, the length of the shadow for a 158 cm tall person is 237 cm.

20. An iron rod of uniform thickness of length 5.6 m weighs 2.4 kg. How much will be the weight of 5 iron rods of the same thickness and length 8.4 m?

Solution:

Weight of 5.6 m rod = 2.4 kg

Weight of 1 m rod = 2.4 / 5.6 = 3/7 kg

Weight of 8.4 m rod = $3/7 \times 8.4 = 3.6$ kg

Weight of 5 such rods = 5×3.6 kg = 18 kg.

21. A train runs 200 kilometres in 5 hours. How many kilometres does it run in 7 hours? **ANSWER:**

Distance covered by the train in 5 hours = 200 km

Distance covered by the train in 1 hour = 2005=402005=40 km

Distance covered by the train in 7 hours = $40 \times 7 = 28040 \times 7 = 280$ km 22.

SOLUTIONS

1) 5 : 9	2) 4:3	3) 2:3	4) 1 : 5	5) 3:20	6) 4 : 1	7) 9:200
8) 5:7	9)4:5&5	5:4	10) Bob = 20 kg,	John = 30 kg	11) 21	12) 45
13) 750	14) yes(1:4=1:4)		15) not in proportion		16) 280, 2:7	17) ₹810
18) ₹720						
