Worksheet: Proportional Reasoning

Uttar Pradesh State Board · Class 8 · Mathematics · 8 questions · 11 marks

Name: _____	Date: _____	Score: _____ / 11

Q1. Which of these is a true proportion? *[1 mark]*

A) 21 : 6 :: 35 : 10

B) 8 : 3 :: 24 : 6

C) 12 : 18 :: 28 : 12

D) 7 : 12 :: 12 : 7

Q2. Acid and water are mixed in the ratio 1 : 5. In 240 mL of solution, the amount of acid is: *[1 mark]*

A) 48 mL

B) 60 mL

C) 200 mL

D) 40 mL

Q3. ₹4,500 is divided between two people in the ratio 2 : 3. The larger share is: *[1 mark]*

A) ₹3,000

B) ₹2,250

C) ₹2,700

D) ₹1,800

Q4. A pair of oxen ploughs an acre in 6 hours. A tractor is 4 times faster. How long does the tractor take per acre? *[1 mark]*

A) 2 hours

B) 10 hours

C) 24 hours

D) 1.5 hours

Q5. Three buses seating 54 each carried a school group. This year 204 people are going. How many buses are needed? *[1 mark]*

A) 3.78

B) 5

C) 3

D) 4

Q6. A tap fills a 500 mL mug in 15 seconds. How many seconds does it take to fill a 10-litre bucket? *[2 marks]*

Q7. One bucket of paint has red and yellow in the ratio 3 : 5. A whole extra bucket of yellow is added. The new ratio of red to yellow is: *[1 mark]*

A) 3 : 13

B) 1 : 2

C) 3 : 10

D) 3 : 6

Q8. Harmain is 1 year old and her brother is 5. In how many years will the ratio of their ages be 1 : 2? *[3 marks]*