Ratios: 10 practice questions

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Name: _____ Date: _____

Attempt all questions and show your working. Suggested time: 15 to 20 minutes.

Section A: Consolidating (Questions 1-4)

Question 1

Simplify the ratio 12 : 18.

Question 2

Simplify the ratio 24 : 36 : 60.

Question 3

A class has 28 students and 12 of them are boys. Write the ratio of boys to girls in simplest form.

Question 4

Find the missing number: 3 : 5 = 12 : □

Section B: Standard (Questions 5-10)

Question 5

Write each ratio in simplest form. Make sure both quantities are in the same units first.

(a) 45 minutes to 2 hours

(b) 15 cm to 20 m

Question 6

Share $120 between Jack and Olivia in the ratio 3 : 5. How much does each person receive?

Question 7

A pancake recipe uses flour and milk in the ratio 5 : 2 by mass. How many grams of milk are needed with 350 g of flour?

Question 8

A jar holds red and blue marbles in the ratio 4 : 7. There are 28 blue marbles.

(a) How many red marbles are in the jar?

(b) How many marbles are in the jar altogether?

Question 9

Write each ratio in simplest form using whole numbers.

(a) 2.5 : 4

(b) ½ : ¾

Question 10

A bushwalking map has a scale of 1 : 50,000. Two campsites are 6 cm apart on the map. How far apart are they in real life? Give your answer in kilometres.

Ratios: answers

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Question 1

Answer: 2 : 3

Question 2

Answer: 2 : 3 : 5 (divide by 12)

Question 3

Answer: 3 : 4 (12 boys to 16 girls)

Question 4

Answer: 20 (multiply both parts by 4)

Question 5

Answer: (a) 3 : 8 (45 : 120) (b) 3 : 400 (15 : 2000)

Question 6

Answer: Jack $45, Olivia $75 (one part is 120 ÷ 8 = 15)

Question 7

Answer: 140 g (350 ÷ 5 × 2)

Question 8

Answer: (a) 16 red marbles (b) 44 marbles

Question 9

Answer: (a) 5 : 8 (b) 2 : 3

Question 10

Answer: 3 km (6 × 50,000 = 300,000 cm)