Ratio and Proportion

Grade 9–10 Math · Grades 9–10 · About 25 minutes · 8 questions

Name _____ Date _____ Score / 8

WHAT YOU WILL PRACTISE

- Simplify a ratio and share an amount in a given ratio
- Find a total or a share when given one part or a difference
- Solve direct and inverse proportion problems

WORKED EXAMPLE

Share $45 in the ratio 4 : 5.

1. Add the parts: 4 + 5 = 9 parts.
2. Find one part: $45 ÷ 9 = $5.
3. Multiply each side of the ratio: 4 × $5 = $20 and 5 × $5 = $25.
4. Check: $20 + $25 = $45.

Answer: $20 and $25

Questions

Show your working in the space under each question.

1. Simplify the ratio 18 : 24

2. Share $60 in the ratio 2 : 3

3. Share 140 candies in the ratio 3 : 4

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4. The ratio of red counters to blue counters in a bag is 5 : 2. There are 35 red counters. How many blue counters are there?

5. 5 pens cost $3.50. Work out the cost of 8 pens.

6. A recipe for 4 people uses 300 g of flour. How much flour is needed for 10 people?

7. Amy and Ben share some money in the ratio 3 : 5. Ben gets $18 more than Amy. How much money do they share in total?

8. 6 workers take 10 days to build a wall. How long would 4 workers take, working at the same rate?

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Answers: Ratio and Proportion

Mark your own work, then go back to any question you got wrong before reading the tutor tip.

Q	QUESTION	ANSWER
1	Simplify the ratio 18 : 24	**3 : 4**
2	Share $60 in the ratio 2 : 3	**$24 and $36**
3	Share 140 candies in the ratio 3 : 4	**60 and 80**
4	The ratio of red counters to blue counters in a bag is 5 : 2. There are 35 red counters. How many blue counters are there?	**14**
5	5 pens cost $3.50. Work out the cost of 8 pens.	**$5.60**
6	A recipe for 4 people uses 300 g of flour. How much flour is needed for 10 people?	**750 g**
7	Amy and Ben share some money in the ratio 3 : 5. Ben gets $18 more than Amy. How much money do they share in total?	**$72**
8	6 workers take 10 days to build a wall. How long would 4 workers take, working at the same rate?	**15 days**

TUTOR TIP

Find the value of one part first. Almost every ratio question becomes easy once you know what one part is worth.

Stuck on a question? Work through it live with a tutor.

YFCampus offers one-to-one online Math tutoring matched to your school curriculum. Book a free trial class at **www.yfcampus.com/ca**

Written for students aged 13 to 16 and suitable for Grades 9–10. Check your school’s curriculum for the exact order of topics. YFCampus is independent and is not affiliated with any exam board or education ministry.