Ratio and Proportion

Junior Cycle Maths · Junior Cycle and Transition Year · 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 sweets 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 sweets 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 Maths tutoring matched to your school curriculum. Book a free trial class at **www.yfcampus.com/ie**

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