

Sharing in a ratio

Year 8 · Ratio & Proportion · y8-ratio-share

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. Share 120 in the ratio 1:2:3. Give the three parts separated by commas.

2. Share 150 in the ratio 2:3:5. Give the three parts separated by commas.

3. Share 84 in the ratio 1:3:3. Total parts = $1+3+3 = 7$. Find 1 part, then give the three amounts separated by commas.

4. £180 is shared between three people in the ratio 1:2:3. How much does the person with the largest share receive? Give your answer in pounds.

5. In a recipe the ratio of flour to sugar to butter is 3:2:1. If 180 g of flour is used, how many grams of sugar are needed?

6. Share 110 in the ratio 1:4. Give the two parts separated by a comma.

7. Cement, sand, and gravel are mixed in the ratio 1:2:4. The total mixture is 21 kg. First find 1 part ($21 \div 7$), then find the mass of gravel in kg.

8. A school trip budget is divided between transport, food, and activities in the ratio 5:3:2. The activities budget is £80. What is the total budget? Give your answer in pounds.

Challenge

1. Three siblings share prize money in the ratio 2:3:5. The sibling with the smallest share receives £80. What is the total prize money? Give your answer in pounds.

2. Red, blue, and green paint are mixed in the ratio 3:1:2. The amount of blue paint is 250 ml. How many ml of red paint are needed?
