

RATIO 'PPQ'S

1) Share £140 in the ratio 5 : 2.

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2) An alloy is made by combining tin and copper in the ratio 3 : 5. What weights of tin and copper are there in 240 kg of the alloy?

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3) Denise, Heather and Alice share a prize of £4000 in the ratio of 4:5:7. How much does each one get?

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4) Arwyn, Betty and Clive share out £3600 in the ratio of 4:5:9. How much do they each get?

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5) Daniel, Richard and Tina share £200 in the ratio of 4:5:7. Calculate how much each one receives.

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6) A village raised £6000 for charity. The organisers decided to share the money between their local hospital, OXFAM and the RSPCA in the ratio of 11:8:6. How much does each charity receive?

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7) A model of a new hotel is made to a scale of 1:250.

(a) The length of the front wall of the model hotel is 30cm long. Calculate the real-life size of the length of this front wall in metres.

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(b) The height of the real-life hotel will be 50m. What is the height, in cm, of the model of the hotel?

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Jill and Alan invest some money and share any profit made in the ratio of 5:4.

(a) How much does Jill get when they make a profit of £270?

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(b) On another occasion, Alan received £136. How much profit were they sharing?

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An alloy is made by using copper and zinc in the ratio of 17:3.

(a) How much zinc is used to make 4 kg of the alloy?

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(b) There is only 1.5 kg of zinc available, but plenty of copper. What is the greatest amount of the alloy that can be made?

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(a) The cost of a stand season ticket last year was £200. This year it has increased by 20%. Find the cost of the stand season ticket this year.

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(b) Two friends, Nigel and Paul, decide to share the cost of a £100 field season ticket in the ratio 4:1.

(i) How much each should each of Nigel and Paul pay towards the cost of the ticket?

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Nigel pays Paul pays

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(ii) In the season there are 45 matches to attend. Nigel suggests that they take it in turns to attend every other match.

Would this be a fair suggestion?

You must explain your answer giving an alternative suggestion if you decide that this would not be a fair method.

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