3.3 Sharing in a Given Ratio: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A packet of 40 sweets is shared between Ben and Zara in the ratio 3:5. Ben gives 6 of his sweets to Zara. Find the new ratio of Ben:Zara.

(3)

2 A length of ribbon 81 cm is shared in the ratio 4:5. Find the two lengths.

(2)

3 The ratio of adults to children at a concert is 3 : 7. There are 24 adults. How many children are there?

(3)

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Question 1

find initial shares: total units 3+5=8, one unit = 40/8 = 5, so Ben = 15, Zara = 25	**M1**
Ben gives 6 so Ben = 15-6 = 9 and Zara = 25+6 = 31	**M1**
new ratio Ben:Zara = 9:31 cao	**A1**

Answer: **9:31**

Question 2

one unit = 81 / (4+5) = 81/9 = 9	**M1**
4 units = 36 and 5 units = 45 cao	**A1**

Answer: **36 cm, 45 cm**

Question 3

24 ÷ 3 = 8	**M1**
8 x 7	**M1**
56 cao	**A1**

Answer: **56**

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