3.4 Ratio Problems with Totals and Differences: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Two numbers are in the ratio 7 : 11. Their total is 162. Find the two numbers.

Calculate the two numbers. **(4)**

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2 Sand and cement are mixed in the ratio 3 : 4 to make mortar. Work out how much sand is in 70 kg of mortar.

(3)

3 8/15 of the sweets in a jar are red and the rest are green. Write the ratio of red sweets to green sweets in its simplest form.

(2)

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Mark scheme · 3.4 Ratio Problems with Totals and Differences: 10-minute Pack

Question 1

method: one part = 162 / (7+11) = 162/18 = 9	**M1**
method: compute each number: 7 x 9 and 11 x 9	**M1**
method: show both numbers 63 and 99	**M1**
63 and 99 cao	**A1**

Answer: **63 and 99**

Question 2

3 + 4 = 7 parts	**M1**
70 ÷ 7 x 3	**M1**
30 kg cao	**A1**

Answer: **30 kg**

Question 3

green = 1 - 8/15 = 7/15	**M1**
8 : 7 cao	**A1**

Answer: **8 : 7**

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