10.3-10 Reasoning Practice Paper 10: 10-minute Pack

NATIONAL CURRICULUM KS2 National Curriculum Mathematics - Reasoning Practice Paper Framework · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Calculate 950 divided by 8, giving your answer with a remainder.

(2)

2 Solve the equation 3n + 7 = 40.

(a) Find the value of n. **(2)**

(b) Find the value of 2n. **(2)**

3 A recipe for 6 people uses 450g of flour and 3 eggs. Chef Oluwaseun wants to make enough for 15 people. Work out the mass of flour needed, and the number of eggs needed, explaining your reasoning about the eggs.

(3)

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Mark scheme · 10.3-10 Reasoning Practice Paper 10: 10-minute Pack

Question 1

correct division method, e.g. 8 x 100 = 800, 950 - 800 = 150, 8 x 18 = 144 oe	**M1**
118 remainder 6 cao	**A1**

Answer: **118 remainder 6**

Question 2

(a) 3n = 40 - 7 = 33 oe	**M1**
(a) n = 11 cao	**A1**

(a) Answer: **n = 11**

(b) uses their value of n and doubles it, ft	**M1**
(b) 22 cao, ft their n	**A1**

(b) Answer: **22**

Question 3

scale factor = 15 / 6 = 2.5 (or unit method: 450 / 6 = 75g and 3 / 6 = 0.5 eggs per person) oe	**M1**
flour = 450 x 2.5 = 1125g, dependent on correct scale factor	**M1**
cso; eggs = 3 x 2.5 = 7.5, which must be rounded up to 8 eggs since a fraction of an egg cannot be used	**A1**

Answer: **1125g of flour and 8 eggs**

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