2.56 Non-Calculator Reasoning Paper A: Test Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write the number four thousand and sixty-two in figures.

(1)

2 Solve $4x + 7 = 39$.

(2)

3 Two numbers are in the ratio 3:7. The difference between the two numbers is 48. Find the larger number.

(3)

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4 A recipe for 8 people needs 320 g of flour.

(a) A recipe for 8 people needs 320 g of flour. Work out how much flour is needed to make the recipe for 35 people. **(2)**

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(b) Flour is sold in bags of 400 g. Work out the least number of whole bags needed to have enough flour for 35 people. **(2)**

.....

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5 By rounding each number to 1 significant figure, estimate the value of 397 x 21.

(2)

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6 A train leaves a station at 14:47. The journey takes 58 minutes. Work out the time the train arrives.

(2)

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Mark scheme · 2.56 Non-Calculator Reasoning Paper A: Test Pack

Question 1

4062 cao	**B1**

Answer: 4062

Question 2

4x = 32 (oe)	**M1**
x = 8 cao	**A1**

Answer: x = 8

Question 3

identifies that the difference of 4 parts represents 48 (oe)	**M1**
1 part = 12 (oe)	**M1**
84 cao	**A1**

Answer: 84

Question 4

(a) 320 / 8 = 40 g per person (oe)	**M1**
(a) 1400 g cao	**A1**

(a) Answer: 1400 g

(b) 1400 / 400 = 3.5 (ft from a) (oe)	**M1**
(b) 4 bags cao, correctly rounded up	**A1**

(b) Answer: 4 bags

Question 5

397 rounds to 400 and 21 rounds to 20 (oe)	**M1**
8000 cao	**A1**

Answer: 8000

Question 6

complete method, e.g. 14:47 + 13 min to reach 15:00, then + 45 min remaining (oe)	**M1**
15:45 cao	**A1**

Answer: 15:45

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