2.47 Mixed Problem-Solving Paper A: 10-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

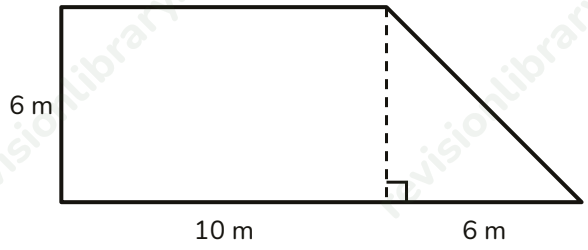
Answer ALL questions. Show all your working.

1 A bag of flour weighs 1.35 kg. A bag of sugar weighs 620 g. What is the total mass of both bags, in kilograms?

(2)

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2 A play area is made from a rectangle 10 m by 6 m, with a triangular section added along one of the 6 m sides. The triangle has the same 6 m base and a height of 4 m. Find the total area of the play area.



(3)

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3 The temperatures recorded at midday on five days in March were: 9C, 13C, 6C, 11C, 13C.

(a) Find the range of the temperatures. **(2)**

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(b) Find the median temperature. **(2)**

.....

4 A machine in a factory produces 18 identical boxes in 3 minutes, working at a constant rate. How many boxes does it produce in 11 minutes?

(3)

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Mark scheme · 2.47 Mixed Problem-Solving Paper A: 10-minute Pack

Question 1

1.35 kg = 1350 g (or 620 g = 0.62 kg)	**M1**
1.97 kg cao	**A1**

Answer: 1.97 kg

Question 2

10 x 6 = 60 (rectangle area)	**M1**
0.5 x 6 x 4 = 12 (triangle area)	**M1**
72 m² cao	**A1**

Answer: 72 m^2

Question 3

(a) identifies the highest (13C) and lowest (6C) values	**M1**
(a) 7C cao	**A1**

(a) Answer: 7C

(b) orders the values correctly: 6, 9, 11, 13, 13	**M1**
(b) 11C cao	**A1**

(b) Answer: 11C

Question 4

18 / 3 = 6 (boxes per minute)	**M1**
6 x 11 (complete correct method)	**M1**
66 cao	**A1**

Answer: 66 boxes

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