FOUNDATION

1.4 Metric Conversions: 30-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which is greater, 1.4 kg or 1409 g? You must show how you decide. Then write down the difference in g.

(Total for Question 1 is 3 marks)

2 Aisha walks 1.9 km and then 546 m. Work out the total distance she walks, in m.

(Total for Question 2 is 3 marks)

3 A recipe uses 200 g of butter. A shop has a 3.9 kg bag of butter. How many complete batches of the recipe can be made from the bag?

(Total for Question 3 is 3 marks)

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4 A shop sells bottles of juice. Each bottle holds 375 ml. Work out the total volume, in litres, of 26 bottles.

(Total for Question 4 is 3 marks)

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5 A recipe uses 150 g of sugar. A shop has a 6.6 kg bag of sugar. How many complete batches of the recipe can be made from the bag?

(Total for Question 5 is 3 marks)

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6 Which is greater, 9.2 m or 941 cm? You must show how you decide. Then write down the difference in cm.

(Total for Question 6 is 3 marks)

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7 Aisha walks 1.5 km and then 327 m. Work out the total distance she walks, in m.

(Total for Question 7 is 3 marks)

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8 Convert 7.25 kilograms to grams.

(Total for Question 8 is 1 mark)

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9 A school hall needs new square floor tiles for a stage area measuring 3.6 m by 2.7 m. Each tile has a side length of 30 cm. Work out how many tiles are needed to cover the stage area exactly.

(Total for Question 9 is 3 marks)

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Mark scheme · 1.4 Metric Conversions: 30-minute Pack

Question 1

converts one quantity to the unit of the other	**M1**
1409 g is greater	**A1**
9 g	**B1**

Answer: 1409 g is greater; difference 9 g

Question 2

converts to the same unit	**M1**
adds the two distances	**M1**
2446 m cao	**A1**

Answer: 2446 m

Question 3

converts 3.9 kg to 3900 g	**M1**
divides by 200	**M1**
19 cao	**A1**

Answer: 19

Question 4

375 x 26	**M1**
divides by 1000	**M1**
9.75 litres cao	**A1**

Answer: 9.75 litres

Question 5

converts 6.6 kg to 6600 g	**M1**
divides by 150	**M1**
44 cao	**A1**

Answer: 44

Question 6

converts one quantity to the unit of the other	**M1**
941 cm is greater	**A1**
21 cm	**B1**

Answer: 941 cm is greater; difference 21 cm

Question 7

converts to the same unit	**M1**
adds the two distances	**M1**
1827 m cao	**A1**

Answer: 1827 m

Question 8

7250 g cao	**B1**

Answer: 7250 g

Question 9

convert tile side to metres: 30 cm = 0.3 m, oe	**M1**
area of one tile = 0.3 x 0.3 = 0.09 m^2, or area of stage = 3.6 x 2.7 = 9.72 m^2, oe	**M1**
108 tiles cao	**A1**

Answer: 108 tiles

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