3.10 Conversions and Units: 30-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 2500 g in kilograms.

(Total for Question 1 is 1 mark)

2 Write down the missing number in each metric conversion fact.

(a) 1 km = _____ m **(1)**

(b) 1 kg = _____ g **(1)**

(c) 1 litre = _____ ml **(1)**

(d) 1 m = _____ cm **(1)**

(Total for Question 2 is 4 marks)

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3 Convert each measurement to the unit shown.

(a) Convert 3.5 m to cm. **(1)**

(b) Convert 4200 g to kg. **(1)**

(c) Convert 1.2 litres to ml. **(1)**

(Total for Question 3 is 3 marks)

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4 A film lasts 1 hour 48 minutes and starts at 14:35.

(a) Write the length of the film in minutes only. **(1)**

(b) Work out the time the film finishes. Give your answer using the 24-hour clock. **(2)**

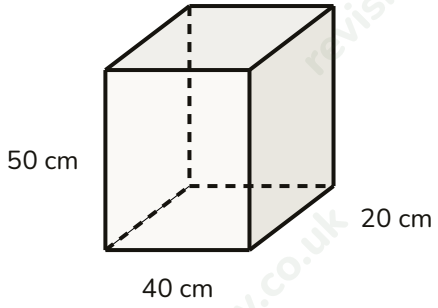
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(Total for Question 4 is 3 marks)

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5 A water tank is a cuboid 40 cm long, 20 cm wide and 50 cm high.
1 litre = 1000 cm^3. How many litres of water does it hold when full?

Diagram NOT accurately drawn



(Total for Question 5 is 3 marks)

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6 A cyclist travels at 198 km/h. Convert this speed to metres per second.

(Total for Question 6 is 3 marks)

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7 Aisha has four lengths of ribbon: 850 mm, 0.7 m, 76 cm and 0.008 km. Write the four lengths in order of size, starting with the smallest.

(Total for Question 7 is 3 marks)

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8 You are given that 5 miles is approximately 8 km, and 1 kg is approximately 2.2 pounds (lb).

(a) A road sign shows a distance of 40 miles. Change this to kilometres. **(2)**

(b) A parcel weighs 9 kg. Change this to pounds (lb). **(2)**

(Total for Question 8 is 4 marks)

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Mark scheme · 3.10 Conversions and Units: 30-minute Pack

Question 1

2.5 kg cao **B1**

Answer: 2.5 kg

Question 2

(a) 1000 cao **B1**

(a) Answer: 1000

(b) 1000 cao **B1**

(b) Answer: 1000

(c) 1000 cao **B1**

(c) Answer: 1000

(d) 100 cao **B1**

(d) Answer: 100

Question 3

(a) 350 cao **B1**

(a) Answer: 350 cm

(b) 4.2 cao **B1**

(b) Answer: 4.2 kg

(c) 1200 cao **B1**

(c) Answer: 1200 ml

Question 4

(a) 108 cao **B1**

(a) Answer: 108 minutes

(b) adds 1 hour 48 minutes to 14:35, e.g. via 15:35 then + 48 minutes **M1**

(b) 16:23 cao **A1**

(b) Answer: 16:23

Question 5

40 x 20 x 50 = 40000 **M1**

divides by 1000 **M1**

40 litres **A1**

Answer: 40 litres

Question 6

198 x 1000 (metres per hour) **M1**

divides by 3600 **M1**

55 m/s **A1**

Answer: 55 m/s

Question 7

converts at least three of the four lengths to a common unit **M1**

all four lengths correctly converted to a common unit, oe (70 cm, 76 cm, 85 cm, 800 cm) **A1**

correct final order cao **A1**

Answer: 0.7 m, 76 cm, 850 mm, 0.008 km

Question 8

(a) 40 / 5 x 8, or equivalent scaling **M1**

(a) 64 (km) cao **A1**

(a) Answer: 64 km

(b) 9 x 2.2 **M1**

(b) 19.8 (lb) awrt 19.8 **A1**

(b) Answer: 19.8 lb

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