2.76 Decimal Place Value and Powers of Ten: 10-minute Pack

Total Marks

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

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Calculate 0.053 times 100.

- ☐ A) 0.53
- ☐ B) 5.3
- ☐ C) 0.0053
- ☐ D) 53
- ☐ E) 0.00053

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2 What is 12.34 divided by 10?

- ☐ A) 1.234
- ☐ B) 12.304
- ☐ C) 0.1234
- ☐ D) 123.4
- ☐ E) 0.01234

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3 0.4, 0.39, 0.401, 0.399

(1)

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4 Write 1.2 correct to three decimal places.

- ☐ A) 1.200
- ☐ B) 1.020
- ☐ C) 1.002
- ☐ D) 1.20
- ☐ E) 1.000

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5 Calculate 0.089 divided by 1000.

- ☐ A) 0.000089
- ☐ B) 0.00089
- ☐ C) 0.0089
- ☐ D) 0.89
- ☐ E) 0.0000089

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6 Which digit is in the thousandths place in 4.206?

- ☐ A) 2
- ☐ B) 0
- ☐ C) 6
- ☐ D) 4
- ☐ E) There is no thousandths digit

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7 A cake recipe needs 0.125 kg of sugar for one cake. Calculate the mass of sugar needed for 100 cakes.

(2)

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8 A small model weighs 0.0027 kg. How many such models weigh 1 kilogram? Give your answer as an integer.

(3)

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Mark scheme · 2.76 Decimal Place Value and Powers of Ten: 10-minute Pack

Question 1

correct option B (5.3) cao **B1**

Answer: B) 5.3 (shift decimal 2 places right: 0.053 -> 5.3).

Question 2

correct option A (1.234) cao **B1**

Answer: A) 1.234 (shift decimal 1 place left).

Question 3

correct option C (0.401) cao **B1**

Answer: C) 0.401 (0.401 > 0.4 because 0.401 has an extra thousandth).

Question 4

correct option A (1.200) cao **B1**

Answer: A) 1.200

Question 5

correct option A (0.000089) cao **B1**

Answer: A) 0.000089 (shift decimal 3 places left).

Question 6

correct option C (6) cao **B1**

Answer: C) 6 (4.206 has tenths=2, hundredths=0, thousandths=6).

Question 7

multiply 0.125 by 100 (shift decimal 2 places) **M1**

12.5 kg cao **A1**

Answer: 12.5 kg

Question 8

form division 1 / 0.0027 or convert to integer method (1000 / 2.7 then adjust) **M1**

complete division to find 370.370... as repeating **M1**

370 models if asked for whole models that fit into 1 kg (or state 370 whole models cao) **A1**

Answer: 370 models (370 x 0.0027 = 0.999, 371 would exceed 1 kg)

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