2.4-3 Decimals: Practice Set 3: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Complete each conversion below.

(a) Write 0.4 as a percentage. **(1)**

(b) Write 85% as a decimal. **(1)**

(c) Write 3/5 as a decimal. **(1)**

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2 Which of these is equivalent to 0.09?

- ☐ A) 9%
- ☐ B) 90%
- ☐ C) 0.9%
- ☐ D) 9/10
- ☐ E) 19%

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3 A hosepipe is 12.6 m long. Meera cuts off a piece measuring 4.85 m. Work out the length of hosepipe that remains.

(2)

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4 A ribbon is 3.6 m long. It is cut into equal pieces, each 0.4 m long. Work out how many pieces can be cut.

(2)

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5 Work out 37.8 / 6.

(2)

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6 Which of these decimals is the smallest?

- ☐ A) 0.6
- ☐ B) 0.56
- ☐ C) 0.605
- ☐ D) 0.065
- ☐ E) 0.65

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7 A recipe for one batch of scones needs 0.65 kg of flour.

(a) Bilal makes 4 batches of scones. Work out the total mass of flour needed, in kg. **(2)**

.....

(b) Give your answer to part (a) in grams. **(1)**

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8 Which of these numbers does NOT round to 7.2 when rounded to 1 decimal place?

- ☐ A) 7.155
- ☐ B) 7.204
- ☐ C) 7.249
- ☐ D) 7.16
- ☐ E) 7.25

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9 Work out (7.4 - 2.9) x 3.

(3)

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10 Mr Devlin buys 3 tins of paint costing £6.45 each and a paintbrush costing £2.30. He pays with a £50 note. Work out how much change he receives.

(4)

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11 A market stall sells plums at £2.35 per kg.

(a) Farah buys 1.6 kg of plums. Work out the cost, to the nearest penny. **(2)**

.....

(b) She pays with a £5 note. Work out how much change she receives. **(2)**

.....

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12 The digits 3, 6, 0 and 9 are each used exactly once to form a decimal number with one digit before the decimal point and three digits after it, in the form _._ _ _

(a) Write the largest possible number that can be formed. **(1)**

(b) Write the smallest possible number that can be formed, given that the number cannot start with 0. **(2)**

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13 Write these numbers in order, starting with the smallest: 0.7, 0.07, 0.77, 0.707

(1)

14 Work out 3.6 + 2.45.

(1)

15 Round 6.348 to 1 decimal place.

- ☐ A) 6.3
- ☐ B) 6.4
- ☐ C) 6.34
- ☐ D) 6.35
- ☐ E) 7.3

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Mark scheme · 2.4-3 Decimals: Practice Set 3: 30-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

(a) 40% cao **B1**

(a) Answer: 40%

(b) 0.85 cao **B1**

(b) Answer: 0.85

(c) 0.6 cao **B1**

(c) Answer: 0.6

Question 2

A) 9% cao **B1**

Answer: 9%

Question 3

12.60 - 4.85 seen, or equivalent complete method **M1**

7.75 m cao **A1**

Answer: 7.75 m

Question 4

36 / 4 (= 9) seen, or equivalent complete method **M1**

9 pieces cao **A1**

Answer: 9 pieces

Question 5

378 / 6 (= 63) seen, or equivalent complete method **M1**

6.3 cao **A1**

Answer: 6.3

Question 6

D) 0.065 cao **B1**

Answer: 0.065

Question 7

(a) 0.65 x 4 seen, or equivalent complete method **M1**

(a) 2.6 kg cao **A1**

(a) Answer: 2.6 kg

(b) 2,600 g ft from (a) **B1**

(b) Answer: 2,600 g

Question 8

E) 7.25 cao **B1**

Answer: 7.25

Question 9

7.4 - 2.9 (= 4.5), the correct first step **M1**

4.5 x 3, dependent on the first M1 **dM1**

13.5 cao **A1**

Answer: 13.5

Question 10

3 x 6.45 (= 19.35) seen, or equivalent complete method **M1**

19.35 + 2.30 (= 21.65), dependent on the first M1 **dM1**

50 - 21.65, dependent on the previous marks **dM1**

£28.35 cao **A1**

Answer: £28.35

Question 11

(a) 2.35 x 1.6 seen, or equivalent complete method **M1**

(a) £3.76 cao **A1**

(a) Answer: £3.76

(b) 5.00 - 3.76 seen, ft from (a) **M1**

(b) £1.24 cao **A1**

(b) Answer: £1.24

Question 12

(a) 9.630 cao **B1**

(a) Answer: 9.630

(b) Identifies 3 as the smallest available non-zero digit for the units place **M1**

(b) 3.069 cao **A1**

(b) Answer: 3.069

Question 13

0.07, 0.7, 0.707, 0.77 cao **B1**

Answer: 0.07, 0.7, 0.707, 0.77

Question 14

6.05 cao **B1**

Answer: 6.05

Question 15

A) 6.3 cao **B1**

Answer: 6.3

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