2.4-2 Decimals: Practice Set 2: 30-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which of these decimals is the smallest?

- ☐ A) 0.38
- ☐ B) 0.399
- ☐ C) 0.45
- ☐ D) 0.408
- ☐ E) 0.4

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2 Round 4.263 to 1 decimal place.

- ☐ A) 4.26
- ☐ B) 4.2
- ☐ C) 4
- ☐ D) 4.3
- ☐ E) 4.27

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3 Work out 0.36 x 100.

- ☐ A) 0.036
- ☐ B) 3.6
- ☐ C) 36
- ☐ D) 360
- ☐ E) 3600

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4 Work out 92.5 / 1000.

- ☐ A) 0.925
- ☐ B) 9.25
- ☐ C) 925
- ☐ D) 9250
- ☐ E) 0.0925

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5 A delivery van travels 5.75 km to the depot, 3.6 km to the first drop and 2.9 km to the second drop.

(a) Calculate the total distance travelled for the three parts of the journey. **(2)**

.....

(b) Calculate how much further the van travelled to the depot than to the second drop. **(1)**

.....

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6 Work out 0.8 x 0.9.

- ☐ A) 7.2
- ☐ B) 0.081
- ☐ C) 0.63
- ☐ D) 1.7
- ☐ E) 0.72

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7 Work out 6.3 / 7.

- ☐ A) 0.9
- ☐ B) 9
- ☐ C) 0.09
- ☐ D) 0.99
- ☐ E) 0.7

---

8 Convert 4/5 to a decimal.

- ☐ A) 0.54
- ☐ B) 0.45
- ☐ C) 0.8
- ☐ D) 1.25
- ☐ E) 0.4

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9 Write 0.24 as a fraction in its simplest form.

- ☐ A) 2/4
- ☐ B) 6/20
- ☐ C) 12/50
- ☐ D) 6/25
- ☐ E) 24/100

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10 Which fraction is equivalent to 0.625?

- ☐ A) 3/4
- ☐ B) 5/6
- ☐ C) 3/5
- ☐ D) 5/8
- ☐ E) 2/3

---

11 Notebooks cost £0.95 each. Which of these is the cost of 6 notebooks?

- ☐ A) £5.75
- ☐ B) £4.70
- ☐ C) £5.70
- ☐ D) £5.40
- ☐ E) £6.70

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12 A plank of wood is 3.2 m long. Freya cuts it into pieces that are each 0.4 m long.

(a) Calculate how many pieces she can cut. **(2)**

(b) State, with a reason, whether there is any wood left over. **(2)**

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13 Which list shows these amounts in order from smallest to largest: £2.05, £2.5, £2.055, £2.45?

- ☐ A) £2.5, £2.45, £2.055, £2.05
- ☐ B) £2.05, £2.055, £2.45, £2.5
- ☐ C) £2.45, £2.05, £2.5, £2.055
- ☐ D) £2.05, £2.45, £2.055, £2.5
- ☐ E) £2.055, £2.05, £2.45, £2.5

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14 Work out the value of each expression, following the correct order of operations.

(a) 4.8 - 1.5 x 0.6 **(2)**

.....

(b) (5.4 + 1.8) / 6 **(2)**

.....

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15 A cinema sells adult tickets for £8.75 and child tickets for £5.40. A family buys 2 adult tickets and 3 child tickets, and pays with two £20 notes.

(a) Calculate the total cost of the tickets. **(3)**

.....

(b) Calculate their change from £40. **(2)**

.....

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16 In the calculation 5.q4 x 3 = 16.32, the letter q represents a single missing digit. Find the value of q, showing your working.

(4)

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17 A market stall sells bananas at £1.36 per kilogram. Sanjay buys 3.5 kg of bananas and has £5 with him.

(a) Calculate the cost of the bananas. **(3)**

.....

(b) State, with a reason, whether Sanjay has enough money to pay for the bananas. **(1)**

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Mark scheme · 2.4-2 Decimals: Practice Set 2: 30-minute Pack

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

Question 1

A) 0.38 cao **B1**

Answer: A) 0.38

Question 2

D) 4.3 cao **B1**

Answer: D) 4.3

Question 3

C) 36 cao **B1**

Answer: C) 36

Question 4

E) 0.0925 cao **B1**

Answer: E) 0.0925

Question 5

(a) 5.75 + 3.6 + 2.9 seen, or a correct part sum **M1**

(a) 12.25 km cao **A1**

(a) Answer: 12.25 km

(b) 2.85 km cao **B1**

(b) Answer: 2.85 km

Question 6

E) 0.72 cao **B1**

Answer: E) 0.72

Question 7

A) 0.9 cao **B1**

Answer: A) 0.9

Question 8

C) 0.8 cao **B1**

Answer: C) 0.8

Question 9

D) 6/25 cao **B1**

Answer: D) 6/25

Question 10

D) 5/8 cao **B1**

Answer: D) 5/8

Question 11

C) £5.70 cao **B1**

Answer: C) £5.70

Question 12

(a) 3.2 / 0.4 seen **M1**

(a) 8 pieces cao **A1**

(a) Answer: 8 pieces

(b) correct conclusion: no, there is no wood left over **B1**

(b) valid supporting reason, e.g. 8 pieces of 0.4 m use exactly 8 x 0.4 = 3.2 m, which is the full length of the plank **B1**

(b) Answer: No, there is no wood left over

Question 13

B cao **B1**

Answer: B) £2.05, £2.055, £2.45, £2.5

Question 14

(a) 1.5 x 0.6 = 0.9 evaluated first **M1**

(a) 3.9 cao **A1**

(a) Answer: 3.9

(b) 5.4 + 1.8 = 7.2 evaluated first **M1**

(b) 1.2 cao **A1**

(b) Answer: 1.2

Question 15

(a) 2 x 8.75 seen, or 3 x 5.40 seen **M1**

(a) correct method to find the total cost, e.g. 17.50 + 16.20 **M1**

(a) £33.70 cao **A1**

(a) Answer: £33.70

(b) 40 - 33.70 seen, ft from part (a) **M1**

(b) £6.30 cao **A1**

(b) Answer: £6.30

Question 16

16.32 / 3 seen **M1**

5.44 found **A1**

5.44 compared digit by digit with 5.q4 to identify the tenths digit **M1**

q = 4 cao **A1**

Answer: q = 4

Question 17

(a) 1.36 x 3.5 seen **M1**

(a) correct method to evaluate the product, e.g. 1.36 x 3 + 1.36 x 0.5 **M1**

(a) £4.76 cao **A1**

(a) Answer: £4.76

(b) correct conclusion with reason, e.g. yes, since £4.76 is less than the £5 he has, ft from part (a) **B1**

(b) Answer: Yes, he has enough money

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