4.8 Decimals and Percentages (Year 5): Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 3.7 as a number of tenths. Give your answer as an integer.

(1)

2 Write these decimals in order, starting with the smallest.

0.585, 0.734, 0.547, 0.879

Answer: ___

(1)

3 A sandwich costs £9.95 and a ball costs £8.88.

What is the total cost of the two items?

Answer: £___

(2)

4 A recipe needs 0.75 litres of milk. Jess has a jug that holds 250 ml. How many full jugs does she need to measure 0.75 litres? (1 litre = 1000 ml)

(2)

© Revision Library | revisionlibrary.co.uk

5 A apple costs £10.65 and a rubber costs £18.76. Layla pays with a £30 note.

How much change does Layla get?

Answer: £___

(2)

---

6 Work out 40% of 96.

Answer: ___

(2)

---

7 In a sale, a game costs £25. The price is reduced by 50%.

What is the sale price?

Answer: £___

(3)

---

8 How many hundredths are in 0.53?

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

9 A bag weighs 2 kg. How many kg are there in 4 bags?

Answer: ___ kg

(2)

---

10 Write these in order, smallest first.

1/2, 2/5, 45%

Answer: ___

(2)

---

11 Complete the table. Write each decimal in the correct column as tenths, hundredths or thousandths.

Numbers: 0.4, 0.08, 0.007, 0.30

(a) Place 0.4 **(1)**

(b) Place 0.08 **(1)**

(c) Place 0.007 and 0.30 **(1)**

---

12 A pair of trainers costs £36.00. The shop increases the price by 25% for a new design. Work out the new price.

(2)

© Revision Library | revisionlibrary.co.uk

13 Explain whether 0.05 is the same as 5% and 1/20. Give a short reason for each equivalence.

(3)

14 What is the value of the digit 5 in the number 12.56?

(1)

15 Round 23.02 to the nearest whole number.

Answer: ___

(1)

16 Round 13.513 to 1 decimal place.

Answer: ___

(1)

17 Work out 50% of 40 m.

Answer: ___

(2)

18 Which has the greater value, 0.47 or 4/10? Tick the correct box.

- ☐ 0.47 is greater
- ☐ 4/10 is greater
- ☐ They are equal

© Revision Library | revisionlibrary.co.uk

19 7.49 + 0.48 =

Answer: ___

(1)

---

20 Decrease 120 m by 20%.

Answer: ___

(2)

---

21 Write 1/4 as a percentage.

Answer: ___ %

(2)

---

22 Complete the statement: 0.6 = ?/10

(1)

---

23 17.44 x 1,000 =

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

24 344.7 divided by 1,000 =

Answer: ___

(1)

---

25 Round 12.332 to 1 decimal place.

Answer: ___

(1)

---

26 Write 2/5 as a percentage.

Answer: ___ %

(2)

---

27 Round 343.03 to the nearest whole number.

Answer: ___

(1)

---

28 61.56 x 10 =

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 4.8 Decimals and Percentages (Year 5): Test Pack

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

Question 1

37 cao — **B1**

Answer: **37**

Question 2

0.547, 0.585, 0.734, 0.879 cao — **B1**

Answer: **0.547, 0.585, 0.734, 0.879**

Question 3

addition of pounds and pence — **M1**

£18.83 cao — **A1**

Answer: **£18.83**

Question 4

Convert 0.75 L to 750 ml or recognise 0.75 = 3/4 and relate to 250 ml — **M1**

3 cao — **B1**

Answer: **3**

Question 5

29.41 seen — **M1**

£0.59 cao — **A1**

Answer: **£0.59**

Question 6

10% or 1% found — **M1**

38.4 cao — **A1**

Answer: **38.4**

Question 7

reduction found — **M1**

subtracts from the original price — **M1**

£12.50 cao — **A1**

Answer: **£12.50**

Question 8

53 cao — **B1**

Answer: **53**

Question 9

multiplication seen — **M1**

8 kg cao — **A1**

Answer: **8 kg**

Question 10

converts to a common form — **M1**

2/5, 45%, 1/2 cao — **A1**

Answer: **2/5, 45%, 1/2**

Question 11

(a) 0.4 placed in tenths column cao — **B1**

(a) Answer: **tenths**

(b) 0.08 placed in hundredths column cao — **B1**

(b) Answer: **hundredths**

(c) 0.007 placed in thousandths and 0.30 placed in hundredths (accept tenths, as 0.30 = 3 tenths) cao — **B1**

(c) Answer: **0.007 -> thousandths; 0.30 -> hundredths (accept tenths, as 0.30 = 3 tenths)**

Question 12

25% of £36.00 = £9.00 seen — **M1**

£45.00 cao — **B1**

Answer: **£45.00**

Question 13

Shows 0.05 = 5/100 or writes 0.05 as 5% — **M1**

Shows 1/20 = 5/100 or converts 1/20 to 0.05 — **M1**

Concludes 0.05 = 5% = 1/20 cao — **B1**

Answer: **Yes. 0.05 = 5/100 = 5%, and 1/20 = 5/100 = 0.05, so all are equivalent.**

Question 14

0.5 or 1/2 cao — **B1**

Answer: **0.5**

Question 15

23 cao — **B1**

Answer: **23**

Question 16

13.5 cao — **B1**

Answer: **13.5**

Question 17

10% or 1% found — **M1**

20 m cao — **A1**

Answer: **20 m**

Question 18

0.47 is greater cao — **B1**

Answer: **0.47 is greater**

Question 19

7.97 cao — **B1**

Answer: **7.97**

Question 20

percentage found — **M1**

96 m cao — **A1**

Answer: **96 m**

Question 21

method seen — **M1**

25% cao — **A1**

Answer: **25%**

© Revision Library | revisionlibrary.co.uk

Question 22

6 cao **B1**

Answer: **6**

Question 23

17,440 cao **B1**

Answer: **17,440**

Question 24

0.3447 cao **B1**

Answer: **0.3447**

Question 25

12.3 cao **B1**

Answer: **12.3**

Question 26

method seen **M1**

40% cao **A1**

Answer: **40%**

Question 27

343 cao **B1**

Answer: **343**

Question 28

615.6 cao **B1**

Answer: **615.6**

© Revision Library | revisionlibrary.co.uk