4.6 Fractions and Decimal Equivalents: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 4/10 as a decimal.

(1)

2 What is the value of the digit 3 in 1.397?

Answer: ___

(1)

3 Round 422.88 to 1 decimal place.

Answer: ___

(1)

4 Convert 45/100 to a decimal.

(1)

5 Work out 1/3 of 45 litres.

Answer: ___

(1)

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

4.3, 4.1, 4.0, 4.8

Answer: ___

(1)

---

7 Write 10/15 in its simplest form.

Answer: ___

(1)

---

8 A recipe needs 0.25 kg of sugar and 75/100 kg of flour. How many kilograms of ingredients are used in total? Give your answer as a decimal.

(2)

---

9 Write 0.4 as a fraction in its simplest form.

Answer: ___

(1)

---

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

2.5, 2.1, 2.3, 2.2

Answer: ___

(1)

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11 1/4 = 5/___

Answer: ___

(1)

---

12 Write these fractions in order, starting with the largest.

6/10, 2/5, 4/20

Answer: ___

(2)

---

13 Zara says 1/4 is equal to 0.25. Is she correct? Explain your answer in one sentence.

(2)

---

14 Round 54.716 to 1 decimal place.

Answer: ___

(1)

---

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

5.55, 5.30, 5.08, 5.98

Answer: ___

(1)

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

8.69, 8.14, 8.51, 8.62

Answer: ___

(1)

---

17 How many hundredths are in 0.34?

Answer: ___

(1)

---

18 Explain why 50/100 is equal to 1/2. Give two different ways to show this.

(3)

---

19 What is the value of the digit 4 in the number 6.48? Tick one.

- ☐ 4
- ☐ 0.4
- ☐ 0.04

---

20 Work out 63 ÷ 10. Write your answer as a decimal.

(1)

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21 Ben has £2.50. He spends £1.20 on a magazine.
How much money does Ben have left?

(2)

---

22 A sticker costs £4.99 and a pencil costs £13.58. Jade pays with a £20 note.

How much change does Jade get?

Answer: £___

(2)

---

23 A ruler costs £14.31 and a lolly costs £4.60. Quinn pays with a £20 note.

How much change does Quinn get?

Answer: £___

(2)

---

24 Write 25/100 in its simplest form.

(1)

---

25 What decimal is made from 1 ones, 5 tenths, 8 hundredths and 8 thousandths?

Answer: ___

(1)

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26 Write these decimals in order, starting with the largest.

6.02, 6.71, 6.96, 6.98

Answer: ___

(1)

---

27 What is 6/10 as a decimal?

(1)

---

28 What decimal is made from 1 ones, 9 tenths, 1 hundredths and 4 thousandths?

Answer: ___

(1)

---

29 Work out 1/2 + 1/3.

Give your answer in its simplest form.

Answer: ___

(2)

---

30 Write 2/5 as a decimal.

Answer: ___

(2)

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31 Work out 2/6 of £108.

Answer: ___

(1)

---

32 Round 16.632 to 1 decimal place.

Answer: ___

(1)

---

33 Layla has 90 bricks. Layla gives 4/6 of them to a friend.

How many bricks does Layla give to the friend?

Answer: ___

(2)

---

34 Write 8/20 in its simplest form.

Answer: ___

(2)

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Mark scheme · 4.6 Fractions and Decimal Equivalents: Test Pack

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

Question 1

0.4 cao — **B1**

Answer: **0.4**

Question 2

0.3 cao — **B1**

Answer: **0.3**

Question 3

422.9 cao — **B1**

Answer: **422.9**

Question 4

0.45 cao — **B1**

Answer: **0.45**

Question 5

15 litres cao — **B1**

Answer: **15 litres**

Question 6

4.0, 4.1, 4.3, 4.8 cao — **B1**

Answer: **4.0, 4.1, 4.3, 4.8**

Question 7

2/3 cao — **B1**

Answer: **2/3**

Question 8

Convert 75/100 to 0.75 and add to 0.25 — **M1**

1.00 or 1.0 cao — **A1**

Answer: **1.00**

Question 9

2/5 cao — **B1**

Answer: **2/5**

Question 10

2.1, 2.2, 2.3, 2.5 cao — **B1**

Answer: **2.1, 2.2, 2.3, 2.5**

Question 11

20 cao — **B1**

Answer: **20**

Question 12

converts to a common denominator or decimals — **M1**

6/10, 2/5, 4/20 cao — **A1**

Answer: **6/10, 2/5, 4/20**

Question 13

States yes or no correctly (yes) — **B1**

Gives correct reason, e.g. 1/4 = 25/100 = 0.25 cao — **B1**

Answer: **Yes. 1/4 = 25/100 = 0.25**

Question 14

54.7 cao — **B1**

Answer: **54.7**

Question 15

5.08, 5.30, 5.55, 5.98 cao — **B1**

Answer: **5.08, 5.30, 5.55, 5.98**

Question 16

8.14, 8.51, 8.62, 8.69 cao — **B1**

Answer: **8.14, 8.51, 8.62, 8.69**

Question 17

34 cao — **B1**

Answer: **34**

Question 18

Shows division/simplifying method, e.g. divide numerator and denominator by 50 to get 1/2 — **M1**

Shows decimal or proportion method, e.g. 50/100 = 0.50 and 1/2 = 0.5 — **M1**

Clear conclusion that both ways show 50/100 = 1/2 cao — **A1**

Answer: **50/100 = 1/2 because dividing top and bottom by 50 gives 1/2, and 50/100 = 0.50 which equals 0.5 = 1/2**

Question 19

0.4 cao — **B1**

Answer: **0.4**

Question 20

6.3 cao — **B1**

Answer: **6.3**

Question 21

£2.50 - £1.20 oe seen, or 250 - 120 seen — **M1**

£1.30 cao — **A1**

Answer: **£1.30**

Question 22

18.57 seen — **M1**

£1.43 cao — **A1**

Answer: **£1.43**

Question 23

18.91 seen — **M1**

£1.09 cao — **A1**

Answer: **£1.09**

Question 24

1/4 cao — **B1**

Answer: **1/4**

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Question 25

1.588 cao **B1**

Answer: **1.588**

Question 26

6.98, 6.96, 6.71, 6.02 cao **B1**

Answer: **6.98, 6.96, 6.71, 6.02**

Question 27

0.6 cao **B1**

Answer: **0.6**

Question 28

1.914 cao **B1**

Answer: **1.914**

Question 29

converts to a common denominator **M1**

5/6 cao **A1**

Answer: **5/6**

Question 30

method seen **M1**

0.4 cao **A1**

Answer: **0.4**

Question 31

£36 cao **B1**

Answer: **£36**

Question 32

16.6 cao **B1**

Answer: **16.6**

Question 33

90 divided by 6 = 15 seen **M1**

60 cao **A1**

Answer: **60**

Question 34

divides numerator and denominator by a common factor **M1**

2/5 cao **A1**

Answer: **2/5**

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