4.10 Fractions, Decimals and Percentages: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Decrease 136 cm by 10%.

Answer: ___

(2)

---

2 What percentage of 80 is 20?

Answer: ___ %

(2)

---

3 2,596 divided by 100 =

Answer: ___

(1)

---

4 Write these in order, smallest first.

0.4, 0.25, 0.2

Answer: ___

(1)

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5 In a sale, a scarf costs £135. The price is reduced by 15%.

What is the sale price?

Answer: £___

(3)

---

6 Tom pays a deposit of 30% on a puzzle that costs £190. The rest is paid later.

How much is paid later?

Answer: £___

(3)

---

7 A packet of seeds costs 80p. During a sale the price is reduced by 25%. What is the sale price in pence?

(2)

---

8 Work out 40% of 16 kg.

Answer: ___

(2)

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9 Write these in order, smallest first.

0.75, 1/2, 0.3

Answer: ___

(2)

---

10 Work out 10% of 156 kg.

Answer: ___

(1)

---

11 9.15 x 100 =

Answer: ___

(1)

---

12 A rubber costs £15.07 and a kite costs £10.38.

How much more does the dearer item cost?

Answer: £___

(2)

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13 A juice costs £6 and a ruler costs £3.84.

How much more does the dearer item cost?

Answer: £___

(1)

---

14 Write these in order, smallest first.

75%, 0.4, 60%

Answer: ___

(2)

---

15 Write these in order, smallest first.

75%, 3/5, 65%

Answer: ___

(1)

---

16 What percentage of 250 is 50?

Answer: ___ %

(2)

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17 Noah scored 13 out of 100 in a test.

Write this score as a percentage.

Answer: ___ %

(2)

---

18 A balloon costs £16.99 and a lolly costs £9.05. Kofi pays with a £30 note.

How much change does Kofi get?

Answer: £___

(2)

---

19 Write 0.85 as a percentage.

Answer: ___ %

(2)

---

20 In a sale, a book costs £20. The price is reduced by 50%.

What is the sale price?

Answer: £___

(2)

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21 A lolly costs £7.81 and a biscuit costs £9.39. Lily pays with a £20 note.

How much change does Lily get?

Answer: £___

(2)

---

22 A juice costs £8.14 and a ruler costs £7.39. Layla pays with a £20 note.

How much change does Layla get?

Answer: £___

(2)

---

23 Decrease 20 kg by 25%.

Answer: ___

(2)

---

24 Nia pays a deposit of 5% on a football that costs £95. The rest is paid later.

How much is paid later?

Answer: £___

(3)

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25 In a sale, a bag costs £200. The price is reduced by 10%.

What is the sale price?

Answer: £___

(3)

---

26 What percentage of 20 is 16?

Answer: ___ %

(2)

---

27 What percentage of 25 is 8?

Answer: ___ %

(2)

---

28 4.1 x 10 =

Answer: ___

(1)

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29 Decrease 16 cm by 5%.

Answer: ___

(1)

---

30 276.2 divided by 1,000 =

Answer: ___

(1)

---

31 A biscuit costs £3.44 and a kite costs £1.29.

How much more does the dearer item cost?

Answer: £___

(2)

---

32 A school charity made £120. They donate 15% to a food bank. How much do they donate? Give your answer in pounds and pence.

(2)

---

33 Decrease 20 by 5%.

Answer: ___

(2)

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34 What percentage of 60 is 57?

Answer: ___ %

(2)

---

35 Write 11/20 as a decimal.

Answer: ___

(2)

---

36 What percentage of 60 is 3?

Answer: ___ %

(2)

---

37 What percentage of 40 is 12?

Answer: ___ %

(1)

---

38 Increase 34 cm by 5%.

Answer: ___

(1)

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39 Work out 90% of £88.

Answer: ___

(2)

---

40 Write 0.04 as a fraction in its simplest form.

Answer: ___

(2)

---

41 What percentage of 200 is 110?

Answer: ___ %

(2)

---

42 Write these in order, smallest first.

70%, 0.45, 25%

Answer: ___

(1)

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43 A ruler costs £9.83 and a kite costs £4.42. Victor pays with a £15 note.

How much change does Victor get?

Answer: £___

(2)

---

44 Write these in order, smallest first.

0.6, 50%, 0.3

Answer: ___

(2)

---

45 5% of 152 =

Answer: ___

(1)

---

46 697.9 divided by 100 =

Answer: ___

(1)

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47 What percentage of 20 is 14?

Answer: ___ %

(2)

---

48 Write 13/20 as a decimal.

Answer: ___

(1)

---

49 Write 0.36 as a percentage.

Answer: ___ %

(2)

---

50 76.13 x 10 =

Answer: ___

(1)

---

51 Jade scored 8 out of 40 in a test.

Write this score as a percentage.

Answer: ___ %

(1)

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52 Write 0.1 as a fraction in its simplest form.

Answer: ___

(2)

---

53 Write these in order, smallest first.

1/4, 3/4, 50%

Answer: ___

(2)

---

54 Increase £24 by 50%.

Answer: ___

(1)

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Mark scheme · 4.10 Fractions, Decimals and Percentages: 2-hour Pack

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

Question 1

percentage found	M1
122.4 cm cao	A1

Answer: **122.4 cm**

Question 2

fraction as a percentage	M1
25% cao	A1

Answer: **25%**

Question 3

25.96 cao	B1

Answer: **25.96**

Question 4

0.2, 0.25, 0.4 cao	B1

Answer: **0.2, 0.25, 0.4**

Question 5

reduction found	M1
subtracts from the original price	M1
£114.75 cao	A1

Answer: **£114.75**

Question 6

deposit found	M1
subtraction	M1
£133 cao	A1

Answer: **£133**

Question 7

25% of 80 calculated or 80 x 0.25 = 20 seen	M1
60p cao	B1

Answer: **60**

Question 8

10% or 1% found	M1
6.4 kg cao	A1

Answer: **6.4 kg**

Question 9

converts to a common form	M1
0.3, 1/2, 0.75 cao	A1

Answer: **0.3, 1/2, 0.75**

Question 10

15.6 kg cao	B1

Answer: **15.6 kg**

Question 11

915 cao	B1

Answer: **915**

Question 12

subtraction method	M1
£4.69 cao	A1

Answer: **£4.69**

Question 13

£2.16 cao	B1

Answer: **£2.16**

Question 14

converts to a common form	M1
0.4, 60%, 75% cao	A1

Answer: **0.4, 60%, 75%**

Question 15

3/5, 65%, 75% cao	B1

Answer: **3/5, 65%, 75%**

Question 16

fraction as a percentage	M1
20% cao	A1

Answer: **20%**

Question 17

converts to a fraction out of 100	M1
13% cao	A1

Answer: **13%**

Question 18

26.04 seen	M1
£3.96 cao	A1

Answer: **£3.96**

Question 19

method seen	M1
85% cao	A1

Answer: **85%**

Question 20

reduction found	M1
£10 cao	A1

Answer: **£10**

Question 21

17.20 seen	M1
£2.80 cao	A1

Answer: **£2.80**

Question 22

15.53 seen	M1
£4.47 cao	A1

Answer: **£4.47**

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Question 23

percentage found	M1
15 kg cao	A1

Answer: **15 kg**

Question 24

deposit found	M1
subtraction	M1
£90.25 cao	A1

Answer: **£90.25**

Question 25

reduction found	M1
subtracts from the original price	M1
£180 cao	A1

Answer: **£180**

Question 26

fraction as a percentage	M1
80% cao	A1

Answer: **80%**

Question 27

fraction as a percentage	M1
32% cao	A1

Answer: **32%**

Question 28

41 cao	B1

Answer: **41**

Question 29

15.2 cm cao	B1

Answer: **15.2 cm**

Question 30

0.2762 cao	B1

Answer: **0.2762**

Question 31

subtraction method	M1
£2.15 cao	A1

Answer: **£2.15**

Question 32

15% of 120 found (120 x 0.15 = 18) or method shown	M1
18.00 or £18 cao	B1

Answer: **18.00**

Question 33

percentage found	M1
19 cao	A1

Answer: **19**

Question 34

fraction as a percentage	M1
95% cao	A1

Answer: **95%**

Question 35

method seen	M1
0.55 cao	A1

Answer: **0.55**

Question 36

fraction as a percentage	M1
5% cao	A1

Answer: **5%**

Question 37

30% cao	B1

Answer: **30%**

Question 38

35.7 cm cao	B1

Answer: **35.7 cm**

Question 39

10% or 1% found	M1
£79.20 cao	A1

Answer: **£79.20**

Question 40

method seen	M1
1/25 cao	A1

Answer: **1/25**

Question 41

fraction as a percentage	M1
55% cao	A1

Answer: **55%**

Question 42

25%, 0.45, 70% cao	B1

Answer: **25%, 0.45, 70%**

Question 43

14.25 seen	M1
£0.75 cao	A1

Answer: **£0.75**

Question 44

converts to a common form	M1
0.3, 50%, 0.6 cao	A1

Answer: **0.3, 50%, 0.6**

Question 45

7.6 cao	B1

Answer: **7.6**

Question 46

6.979 cao	B1

Answer: **6.979**

Question 47

fraction as a percentage	M1
70% cao	A1

Answer: **70%**

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Question 48

0.65 cao	**B1**

Answer: **0.65**

Question 49

method seen	**M1**
36% cao	**A1**

Answer: **36%**

Question 50

761.3 cao	**B1**

Answer: **761.3**

Question 51

20% cao	**B1**

Answer: **20%**

Question 52

method seen	**M1**
1/10 cao	**A1**

Answer: **1/10**

Question 53

converts to a common form	**M1**
1/4, 50%, 3/4 cao	**A1**

Answer: **1/4, 50%, 3/4**

Question 54

£36 cao	**B1**

Answer: **£36**

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