4.10 Fractions, Decimals and Percentages: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 What percentage of 60 is 15?

Answer: ___ %

(2)

---

2 50% of 140 =

Answer: ___

(1)

---

3 Write these in order, smallest first.

65%, 0.75, 3/5

Answer: ___

(2)

---

4 What percentage of 40 is 2?

Answer: ___ %

(1)

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5 Write these in order, smallest first.

20%, 9/20, 0.7

Answer: ___

(1)

---

6 24 x 10 =

Answer: ___

(1)

---

7 Write 25% as a fraction in its simplest form.

Answer: ___

(1)

---

8 Decrease £24 by 25%.

Answer: ___

(3)

---

9 What percentage of 80 is 44?

Answer: ___ %

(1)

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10 Write 0.12 as a fraction in its simplest form.

Answer: ___

(2)

---

11 What percentage of 40 is 38?

Answer: ___ %

(1)

---

12 What percentage of 250 is 245?

Answer: ___ %

(2)

---

13 10% of 200 =

Answer: ___

(1)

---

14 A shirt is reduced by 30% and now costs 31.50. What was the original price? Show your method.

(2)

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15 Ben says that 33 1/3% is the same as 0.33. Is he correct? Explain your answer.

(2)

16 What percentage of 500 is 160?

Answer: ___ %

(2)

17 What percentage of 200 is 126?

Answer: ___ %

(1)

18 Olu pays a deposit of 5% on a kite that costs £155. The rest is paid later.

How much is paid later?

Answer: £___

(3)

19 281.6 divided by 10 =

Answer: ___

(1)

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20 What percentage of 40 is 34?

Answer: ___ %

(2)

---

21 Work out 2.5% of £72.

Answer: ___

(2)

---

22 Write these in order, smallest first.

30%, 0.5, 45%

Answer: ___

(2)

---

23 What percentage of 120 is 90?

Answer: ___ %

(2)

---

24 Write 45% as a decimal and as a fraction (simplify the fraction).

(2)

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25 Increase 44 cm by 30%.

Answer: ___

(1)

---

26 What percentage of 200 is 22?

Answer: ___ %

(2)

---

27 Increase 16 cm by 1%.

Answer: ___

(3)

---

28 5% of 196 =

Answer: ___

(1)

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Mark scheme · 4.10 Fractions, Decimals and Percentages: 1-hour Pack

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

Question 1

fraction as a percentage — M1
25% cao — A1
Answer: **25%**

Question 2

70 cao — B1
Answer: **70**

Question 3

converts to a common form — M1
3/5, 65%, 0.75 cao — A1
Answer: **3/5, 65%, 0.75**

Question 4

5% cao — B1
Answer: **5%**

Question 5

20%, 9/20, 0.7 cao — B1
Answer: **20%, 9/20, 0.7**

Question 6

240 cao — B1
Answer: **240**

Question 7

1/4 cao — B1
Answer: **1/4**

Question 8

percentage found — M1
adds or subtracts correctly — M1
£18 cao — A1
Answer: **£18**

Question 9

55% cao — B1
Answer: **55%**

Question 10

method seen — M1
3/25 cao — A1
Answer: **3/25**

Question 11

95% cao — B1
Answer: **95%**

Question 12

fraction as a percentage — M1
98% cao — A1
Answer: **98%**

Question 13

20 cao — B1
Answer: **20**

Question 14

Recognise that 31.50 is 70% of original or method showing division by 0.7 — M1
45.00 cao — B1
Answer: **45.00**

Question 15

Identify 33 1/3% as 1/3 or 0.333... and explain decimal repeats — M1
State Ben is not correct: 33 1/3% = 0.333... not 0.33 cao — B1
Answer: **Not correct; 33 1/3% = 1/3 = 0.333... which is not equal to 0.33**

Question 16

fraction as a percentage — M1
32% cao — A1
Answer: **32%**

Question 17

63% cao — B1
Answer: **63%**

Question 18

deposit found — M1
subtraction — M1
£147.25 cao — A1
Answer: **£147.25**

Question 19

28.16 cao — B1
Answer: **28.16**

Question 20

fraction as a percentage — M1
85% cao — A1
Answer: **85%**

Question 21

10% or 1% found — M1
£1.80 cao — A1
Answer: **£1.80**

Question 22

converts to a common form — M1
30%, 45%, 0.5 cao — A1
Answer: **30%, 45%, 0.5**

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Question 23

fraction as a percentage	M1
75% cao	A1

Answer: **75%**

Question 24

0.45 decimal cao	B1
9/20 fraction cao	B1

Answer: **0.45, 9/20**

Question 25

57.2 cm cao	B1

Answer: **57.2 cm**

Question 26

fraction as a percentage	M1
11% cao	A1

Answer: **11%**

Question 27

percentage found	M1
adds or subtracts correctly	M1
16.16 cm cao	A1

Answer: **16.16 cm**

Question 28

9.8 cao	B1

Answer: **9.8**

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