4.10 Fractions, Decimals and Percentages: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 3/4 as a decimal.

(1)

2 Decrease 124 kg by 25%.

Answer: ___

(1)

3 Write 12.5% as a fraction in its simplest form.

Answer: ___

(1)

4 A recipe needs 2.5 kg of flour. Mia uses 60% of the flour for the first batch. How many kilograms of flour are left? Show your working.

(3)

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5 Write these in order, smallest first.

1/5, 0.25, 0.75

Answer: ___

(2)

---

6 Write these in order, smallest first.

50%, 70%, 0.75

Answer: ___

(2)

---

7 10% of 188 =

Answer: ___

(1)

---

8 Increase 72 by 2.5%.

Answer: ___

(3)

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9 Write these in order from smallest to largest: 0.205, 1/5, 20%

(2)

---

10 A school book has 240 pages. A pupil has read 37.5% of the book. How many pages has the pupil read? Give your answer as a whole number.

(2)

---

11 Write 0.6 as a fraction in its simplest form.

(2)

---

12 Write 11/20 as a percentage.

Answer: ___ %

(1)

---

13 In a sale, a puzzle costs £20. The price is reduced by 75%.

How much is the reduction?

Answer: £___

(1)

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14 15% of 960 =

Answer: ___

(1)

---

15 Write <, > or = in the box.

6/7 [ ] 7/10

Answer: ___

(2)

---

16 What percentage of 200 is 44?

Answer: ___ %

(2)

---

17 Sana ate 2/5 of a cake. What percentage of the cake did she eat? Show your working.

(2)

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18 A apple costs £11.03 and a notebook costs £12.68. Tom pays with a £25 note.

How much change does Tom get?

Answer: £___

(2)

---

19 Write 36% as a fraction in its simplest form.

Answer: ___

(2)

---

20 Complete the missing value: 0.875 = ?/8 = ?%

(2)

---

21 Write 3/8 as a decimal.

Answer: ___

(1)

---

22 What percentage of 500 is 60?

Answer: ___ %

(1)

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23 What percentage of 80 is 68?

Answer: ___ %

(1)

---

24 Write these in order, smallest first.

65%, 50%, 75%

Answer: ___

(2)

---

25 Convert 7/20 to a decimal and to a percentage.

(2)

---

26 Increase 12 m by 80%.

Answer: ___

(3)

---

27 15% of 360 =

Answer: ___

(1)

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Mark scheme · 4.10 Fractions, Decimals and Percentages: Test Pack

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

Question 1

0.75 cao	B1

Answer: **0.75**

Question 2

93 kg cao	B1

Answer: **93 kg**

Question 3

1/8 cao	B1

Answer: **1/8**

Question 4

60% of 2.5 found or 2.5 x 0.6 = 1.5 shown	M1
Subtraction of used amount from total (2.5 - 1.5) or equivalent	M1
1.0 kg left cao	B1

Answer: **1.0**

Question 5

converts to a common form	M1
1/5, 0.25, 0.75 cao	A1

Answer: **1/5, 0.25, 0.75**

Question 6

converts to a common form	M1
50%, 70%, 0.75 cao	A1

Answer: **50%, 70%, 0.75**

Question 7

18.8 cao	B1

Answer: **18.8**

Question 8

percentage found	M1
adds or subtracts correctly	M1
73.8 cao	A1

Answer: **73.8**

Question 9

Conversion or comparison work seen (1/5 = 0.2 = 20%)	M1
1/5, 20%, 0.205 cao (1/5 and 20% are both equal to 0.2, so either order between them is accepted)	B1

Answer: **1/5, 20%, 0.205**

Question 10

37.5% of 240 calculated or method shown (240 x 0.375 = 90)	M1
90 pages cao	B1

Answer: **90**

Question 11

0.6 = 6/10 or equivalent shown	M1
3/5 cao	B1

Answer: **3/5**

Question 12

55% cao	B1

Answer: **55%**

Question 13

£15 cao	B1

Answer: **£15**

Question 14

144 cao	B1

Answer: **144**

Question 15

common denominator seen	M1
> cao	A1

Answer: **>**

Question 16

fraction as a percentage	M1
22% cao	A1

Answer: **22%**

Question 17

2/5 converted to a decimal or fraction of 100, e.g. 2/5 = 40/100 or 0.4	M1
40% cao	B1

Answer: **40%**

Question 18

23.71 seen	M1
£1.29 cao	A1

Answer: **£1.29**

Question 19

method seen	M1
9/25 cao	A1

Answer: **9/25**

Question 20

0.875 expressed as fraction with denominator 8: 7/8 seen	M1
87.5% cao	B1

Answer: **7/8, 87.5%**

Question 21

0.375 cao	B1

Answer: **0.375**

Question 22

12% cao	B1

Answer: **12%**

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Question 23

85% cao	**B1**

Answer: **85%**

Question 24

converts to a common form	**M1**
50%, 65%, 75% cao	**A1**

Answer: **50%, 65%, 75%**

Question 25

0.35 decimal cao	**B1**
35% cao	**B1**

Answer: **0.35, 35%**

Question 26

percentage found	**M1**
adds or subtracts correctly	**M1**
21.6 m cao	**A1**

Answer: **21.6 m**

Question 27

54 cao	**B1**

Answer: **54**

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