1.2 Number: Fractions, Decimals, Percentages: 1-hour Pack

Calculator allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Calculate 35% of 220.

(2)

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2 A jug holds 3/4 of a litre. Kayleigh pours out 1/6 of a litre. Calculate how much liquid remains in the jug, giving your answer as a fraction in its simplest form.

(2)

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3 Work out 2/5 + 1/4, giving your answer as a fraction in its simplest form.

(2)

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4 A laptop has a price of £540 before VAT is added. VAT is charged at 20%. Calculate the total price of the laptop including VAT.

(2)

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5 Work out 10% of 40.

(2)

---

6 Write 1/2 as (a) a decimal and (b) a percentage.

(2)

---

7 12 out of 45 pupils walk to school. What fraction is this? Give your answer in its simplest form.

(2)

---

8 Write 87.5% as (a) a decimal and (b) a fraction in its simplest form.

(2)

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9 Work out 15% of 75.

(2)

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10 Write 23/50 as (a) a decimal and (b) a percentage.

(2)

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11 Work out 30% of 160.

(2)

12 Decrease £50 by 40%.

(2)

13 Work out 75% of 160.

(2)

14 Write 80% as (a) a decimal and (b) a fraction in its simplest form.

(2)

15 Write 40/55 in its simplest form.

(1)

16 Write 42.5% as (a) a decimal and (b) a fraction in its simplest form.

(2)

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17 A pupil scores 22 out of 25 in a test. Write 22 out of 25 as a percentage.

(2)

---

18 Write these fractions in order of size, smallest first.
1/2, 5/6, 2/8

(2)

---

19 A coat costs £50. In a sale its price is reduced by 25%. Work out the new price.

(2)

---

20 Increase £120 by 8%.

(2)

---

21 37 of the 40 seats in a cinema are taken. Write 37 out of 40 as a percentage.

(2)

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22 Write these fractions in order of size, largest first.
4/8, 5/6, 1/5

(2)

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23 A phone is reduced by 20% in a sale. The sale price is £152. Calculate the original price of the phone.

(3)

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Mark scheme · 1.2 Number: Fractions, Decimals, Percentages: 1-hour Pack

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

Question 1

220 x 0.35 oe	M1
77 cao	A1

Answer: **77**

Question 2

common denominator of 12 used: 9/12 - 2/12 oe	M1
7/12 cao	A1

Answer: **7/12**

Question 3

common denominator of 20 used: 8/20 + 5/20 oe	M1
13/20 cao	A1

Answer: **13/20**

Question 4

540 x 1.2 oe, or 540 + (540 x 0.2)	M1
648 (pounds) cao	A1

Answer: **£648**

Question 5

10% = 4 or 10/100 x 40 seen	M1
4 cao	A1

Answer: **4**

Question 6

(a) 0.5	B1
(b) 50%	B1

Answer: **(a) 0.5, (b) 50%**

Question 7

12/45 seen	M1
4/15 cao	A1

Answer: **4/15**

Question 8

(a) 0.875	B1
(b) 7/8	B1

Answer: **(a) 0.875, (b) 7/8**

Question 9

10% = 7.5 or 15/100 x 75 seen	M1
11.25 cao	A1

Answer: **11.25**

Question 10

(a) 0.46	B1
(b) 46%	B1

Answer: **(a) 0.46, (b) 46%**

Question 11

10% = 16 or 30/100 x 160 seen	M1
48 cao	A1

Answer: **48**

Question 12

40% of 50 = 20 or a multiplier of 0.6 used	M1
£30 cao	A1

Answer: **£30**

Question 13

10% = 16 or 75/100 x 160 seen	M1
120 cao	A1

Answer: **120**

Question 14

(a) 0.8	B1
(b) 4/5	B1

Answer: **(a) 0.8, (b) 4/5**

Question 15

8/11 cao	B1

Answer: **8/11**

Question 16

(a) 0.425	B1
(b) 17/40	B1

Answer: **(a) 0.425, (b) 17/40**

Question 17

22/25 x 100 or equivalent	M1
88% cao	A1

Answer: **88%**

Question 18

converts to a common denominator (24) or to decimals	M1
2/8, 1/2, 5/6 cao	A1

Answer: **2/8, 1/2, 5/6**

Question 19

25% of 50 = 12.5 or a multiplier of 0.75 used	M1
£37.50 cao	A1

Answer: **£37.50**

Question 20

8% of 120 = 9.6 or a multiplier of 1.08 used	M1
£129.60 cao	A1

Answer: **£129.60**

Question 21

37/40 x 100 or equivalent	M1
92.5% cao	A1

Answer: **92.5%**

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Question 22

converts to a common denominator (120) or to decimals	**M1**
5/6, 4/8, 1/5 cao	**A1**

Answer: **5/6, 4/8, 1/5**

Question 23

recognises sale price = 80% of original, e.g. 0.8 x P = 152 oe	**M1**
P = 152/0.8	**M1**
190 (pounds) cao	**A1**

Answer: **£190**

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