1.2 Number: Fractions, Decimals, Percentages: 30-minute Pack

Calculator allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Convert 0.65 to a percentage.

(1)

2 Convert 9/20 to a percentage.

(1)

3 Work out each answer, giving your answer as a fraction in its simplest form.

(a) Work out 1/3 + 1/4 **(2)**

(b) Work out 5/6 - 1/3 **(2)**

4 Calculate 24% of 150.

(2)

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5 Simplify 16/24 fully.

(1)

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6 6 out of 20 players scored a goal. What fraction is this? Give your answer in its simplest form.

(2)

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7 Write 31/40 as (a) a decimal and (b) a percentage.

(2)

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8 A ticket costs £40. The price falls by 20%. Work out the new price.

(2)

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9 A pupil scores 22 out of 200 in a test. Write 22 out of 200 as a percentage.

(2)

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10 A television is reduced by 12% in a sale. The sale price is £220. Calculate the original price of the television.

(3)

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11 Show that 0.4 recurring (0.4444...) is equal to 4/9.

(3)

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Mark scheme · 1.2 Number: Fractions, Decimals, Percentages: 30-minute Pack

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

Question 1

65% cao	B1

Answer: **65%**

Question 2

45% cao	B1

Answer: **45%**

Question 3

(a) common denominator of 12 used: 4/12 + 3/12 oe	M1
(a) 7/12 cao	A1

(a) Answer: **7/12**

(b) common denominator of 6 used: 5/6 - 2/6 oe	M1
(b) 1/2 cao	A1

(b) Answer: **1/2**

Question 4

150 x 0.24 oe	M1
36 cao	A1

Answer: **36**

Question 5

2/3 cao	B1

Answer: **2/3**

Question 6

6/20 seen	M1
3/10 cao	A1

Answer: **3/10**

Question 7

(a) 0.775	B1
(b) 77.5%	B1

Answer: **(a) 0.775, (b) 77.5%**

Question 8

20% of 40 = 8 or a multiplier of 0.8 used	M1
£32 cao	A1

Answer: **£32**

Question 9

22/200 x 100 or equivalent	M1
11% cao	A1

Answer: **11%**

Question 10

recognises sale price = 88% of original, e.g. 0.88 x P = 220 oe	M1
P = 220/0.88	M1
250 (pounds) cao	A1

Answer: **£250**

Question 11

sets x = 0.4444... and forms 10x = 4.4444... oe	M1
subtracts to get 9x = 4 oe	M1
x = 4/9 cso (answer given, full method required)	A1

Answer: **4/9**

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