# 4.10 Fractions, Decimals and Percentages: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** In a sale, a bag costs £160. The price is reduced by 20%.

How much is the reduction?

Answer: £___

**(1)**

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**2** Work out 75% of £16.

Answer: ___

**(2)**

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**3** Write 4% as a fraction in its simplest form.

Answer: ___

**(2)**


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**4** 25.26 x 1,000 =

Answer: ___

**(1)**

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**5** Decrease 12 m by 40%.

Answer: ___

**(3)**

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**6** Write these in order, smallest first.

3/10, 0.65, 1/4

Answer: ___

**(1)**

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**7** Kiran pays a deposit of 25% on a puzzle that costs £145. The rest is paid later.

How much is paid later?

Answer: £___

**(3)**


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**8** Explain which is larger and why: 4/9 or 44%. Show your reasoning.

(3)

**9** Convert 0.045 to a percentage and to a fraction in its simplest form.

(1)

**10** A class has 30 pupils. 40% are girls. After 3 more girls join the class, what percentage of the class are girls? Give your answer to one decimal place.

(3)

**11** 12% of 820 =

Answer: ___

(1)


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**12** Write <, > or = in the box.

4/5 [ ] 1/6

Answer: ___

**(2)**

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**13** Fill the missing number: 250% of ? = 5. What is the value of ?

**(2)**


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# Mark scheme · 4.10 Fractions, Decimals and Percentages: 30-minute Pack

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

## Question 1

£32 cao — **B1**

Answer: **£32**

## Question 2

10% or 1% found — **M1**

£12 cao — **A1**

Answer: **£12**

## Question 3

method seen — **M1**

1/25 cao — **A1**

Answer: **1/25**

## Question 4

25,260 cao — **B1**

Answer: **25,260**

## Question 5

percentage found — **M1**

adds or subtracts correctly — **M1**

7.2 m cao — **A1**

Answer: **7.2 m**

## Question 6

1/4, 3/10, 0.65 cao — **B1**

Answer: **1/4, 3/10, 0.65**

## Question 7

deposit found — **M1**

subtraction — **M1**

£108.75 cao — **A1**

Answer: **£108.75**

## Question 8

One correct conversion: 4/9 to decimal (0.444...) or to percentage (44.4...%) or 44% to fraction 11/25 — **M1**

Comparison shown using converted forms, e.g. 44.4...% > 44% or 0.444... > 0.44 — **M1**

Correct conclusion with reason: 4/9 is larger because 4/9 = 44.4...% > 44% cao — **B1**

Answer: **4/9 is larger; 4/9 = 44.4...% which is greater than 44%**

## Question 9

4.5% and 9/200 cao — **B1**

Answer: **4.5%, 9/200**

## Question 10

Find initial number of girls: 40% of 30 = 12 or method shown — **M1**

Add 3 to girls and find new percentage: (15/33) x 100 or equivalent method — **M1**

45.5% cao — **B1**

Answer: **45.5%**

## Question 11

98.4 cao — **B1**

Answer: **98.4**

## Question 12

common denominator seen — **M1**

> cao — **A1**

Answer: **>**

## Question 13

250% recognised as 2.5 and equation 2.5 x ? = 5 or method to divide 5 by 2.5 — **M1**

2 cao — **B1**

Answer: **2**


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