# 2.5-4 Percentages: Practice Set 4: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

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

**1** A washing machine is reduced from £340 to £289. Find the percentage decrease.

**(3)**

**2** The price of a bus pass rises from £45 to £54. Calculate the percentage increase.

**(3)**

**3** Fatima scored 39 out of 50 in a geography test. What percentage did she score?

**(2)**

**4** A charity bookshop had 260 books in stock. On Friday, 15% of the books were sold. On Saturday, a further 26 books were sold.

**(a)** How many books were sold on Friday? **(1)**

.....

**(b)** How many books remain in stock after Saturday? **(2)**

.....


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**5** After a price increase of 25%, a scooter costs £175. Find the original price.

**(3)**

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**6** Meera buys a set of headphones in a sale. They have been reduced by 40% and now cost £96. What was the original price of the headphones?

**(3)**

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**7** Which decimal is equal to 4%?

- ☐ A) 0.004
- ☐ B) 0.04
- ☐ C) 0.4
- ☐ D) 4.0
- ☐ E) 40

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**8** A shop increases the price of a coat by 30%. A month later, the increased price is reduced by 20% in a sale.

**(a)** The coat originally cost £50. Find the price after the 30% increase. **(1)**

**(b)** Find the price after the 20% decrease is applied to £65. **(2)**

**(c)** Is the final price the same as the original £50? State the difference. **(1)**


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**9** Oliver invests £650 in a savings account that pays 4% simple interest per year. How much interest will he earn after 3 years?

**(3)**

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**10** In a survey of 400 residents in Cardiff, 65% said they use the local recycling centre. Of these residents, 40% said they visit weekly. How many residents both use the recycling centre and visit weekly?

**(3)**

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**11** Complete the following conversions between fractions, decimals and percentages.

**(a)** Write 19/20 as a percentage. **(1)**

**(b)** Write 0.56 as a fraction in its simplest form. **(1)**

**(c)** Write 18% as a decimal. **(1)**

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**12** Find 10% of £740.

**(1)**


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# Mark scheme · 2.5-4 Percentages: Practice Set 4: 30-minute Pack

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

## Question 1

| | |
|---|---|
| decrease found (= 340 - 289 = 51) | **M1** |
| dep: their 51 / 340 oe seen | **M1** |
| 15% cao | **A1** |

**Answer: 15%**

## Question 2

| | |
|---|---|
| increase found (= 54 - 45 = 9) | **M1** |
| dep: their 9 / 45 oe seen | **M1** |
| 20% cao | **A1** |

**Answer: 20%**

## Question 3

| | |
|---|---|
| 39/50 oe seen | **M1** |
| 78% cao | **A1** |

**Answer: 78%**

## Question 4

| | |
|---|---|
| (a) 39 cao | **B1** |

**(a) Answer: 39**

| | |
|---|---|
| (b) 260 - their 39 (= 221) found (ft from part a) | **M1** |
| (b) 195 cao (ft) | **A1** |

**(b) Answer: 195**

## Question 5

| | |
|---|---|
| recognises 125% represents £175 (or finds 1% = 1.40) | **M1** |
| dep: finds 100% from their 1% or 125% | **M1** |
| £140 cao | **A1** |

**Answer: £140**

## Question 6

| | |
|---|---|
| recognises 60% represents £96 (or finds 1% = 1.60) | **M1** |
| dep: finds 100% from their 1% or 60% | **M1** |
| £160 cao | **A1** |

**Answer: £160**

## Question 7

| | |
|---|---|
| B) 0.04 cao | **B1** |

**Answer: 0.04**

## Question 8

| | |
|---|---|
| (a) £65 cao | **B1** |

**(a) Answer: £65**

| | |
|---|---|
| (b) 20% of 65 found (= 13), e.g. via 10% x 2 (ft from part a) | **M1** |
| (b) £52 cao (ft) | **A1** |

**(b) Answer: £52**

| | |
|---|---|
| (c) No; £2 more than the original (ft from part b) | **B1** |

**(c) Answer: No; the final price (£52) is £2 more than the original £50.**

## Question 9

| | |
|---|---|
| 4% of 650 found (= 26) | **M1** |
| dep: their 26 x 3 | **M1** |
| £78 cao | **A1** |

**Answer: £78**

## Question 10

| | |
|---|---|
| 65% of 400 found (= 260) | **M1** |
| dep: 40% of their 260 found | **M1** |
| 104 cao | **A1** |

**Answer: 104**

## Question 11

| | |
|---|---|
| (a) 95% cao | **B1** |

**(a) Answer: 95%**

| | |
|---|---|
| (b) 14/25 oe cao | **B1** |

**(b) Answer: 14/25**

| | |
|---|---|
| (c) 0.18 cao | **B1** |

**(c) Answer: 0.18**

## Question 12

| | |
|---|---|
| £74 cao | **B1** |

**Answer: £74**


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