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1. [7 marks]

Students in Year 11 took a maths test.
The maximum mark in the test was 75.

(a) Melissa scored 48 marks.
Express 48 as a percentage of 75

....
(2)

(b) Ciaran scored 76%.
Work out 76% of 75 marks.

....
(2)

(c) 56% of the students who took the test were girls.
There were 126 girls that took the test.
Work out the total number of students that took the test.

....
(3)

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2. [4 marks]

Paul got 68 out of 80 in a science test.

(a) Work out 68 out of 80 as a percentage.

.......................%

(2)

Paul got 72 marks in a maths test.
72 is 60% of the total number of marks.

(b) Work out the total number of marks.

....

(2)

3. [3 marks]

Jade has tax deducted from her income at the rate of 24%.
Last month, after tax had been deducted, $1786 of her income remained.
Calculate her income last month before the tax was deducted.

$ ....

In a sale, normal prices were reduced by 35%.

(a) The normal price of a camera was £180
Work out the sale price of the camera.

£ ....
(3)

(b) The normal price of a clock was reduced by £84
Work out the normal price of the clock.

£ ....
(3)

(c) The sale price of a computer was £442
Work out the normal price of the computer.

£ ....
(3)

5. **[3 marks]**

Ella invested $8000 for 3 years at 5% per annum **compound interest**.

Calculate the value of her investment at the end of 3 years.

$ ....

6. **[6 marks]**

In a sale, normal prices are reduced by 8%

(a) The normal price of a jacket is £28

Work out the price of the jacket in the sale.

£ ....
(3)

(b) In the sale, the price of a shirt decreases by £3

Work out the normal price of the shirt.

£ ....
(3)

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7.   **[3 marks]**

In July 2002, the population of Egypt was 69 million.
By July 2003, the population of Egypt had increased by 2%.

Work out the population of Egypt in July 2003.

.... million

8.   **[6 marks]**

Lisa sees a dress in a sale.
The normal price of the dress is $45
The price of the dress is reduced by 12% in the sale.

(a) Work out the price of the dress in the sale.

$ ....
(3)

Lisa's weekly pay increases from $525 to $546

(b) Calculate her percentage pay increase.

.... %
(3)

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9. **[6 marks]**

Eloy's height was 125 cm when his age was 7 years.
His height was 153 cm when his age was 12 years.

(a) Work out the percentage increase in Eloy's height between the ages of 7 and 12 years.

....%

(3)

Eloy's height at the age of 12 years was 85% of his height at the age of 20 years.

(b) Work out Eloy's height when his age was 20 years.

.... cm
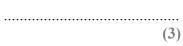
(3)

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An electronics store had a sale in which it reduced all its prices by 24%.

(a)   Tom bought a television which had been reduced by $85
        Work out how much Tom paid for the television.

....
                                                                                                                                          (3)

(b)   Michael paid $140 for a DAB radio.
        Work out the original price of the radio, before the sale.

....
                                                                                                                                          (3)

(c)   Alec bought a laptop, which was originally priced at $380
        Work out the sale price for the laptop.

....
                                                                                                                                          (3)

Maddie invested $3000 for 4 years at 2.5% per annum compound interest.

(a) Calculate the amount of the investment at the end of 4 years.

$ ....
(3)

(b) Work out the amount of interest that Maddie earned in these 4 years.

$ ....
(2)

Pardeep invests a sum of money at an interest rate of 3% per year.
At the end of one year, the interest he receives is $372

(c) Work out the value of Pardeep's investment at the end of one year.

$ ....
(3)

12. [6 marks]

Cara's salary was increased from $28 250 to $29 832

(a) Work out the percentage increase in Cara's salary.

.... %
(3)

Pedro's salary was increased by 5.2%.
After the increase, his salary was $28 141

(b) Work out his salary before the increase.

$ ....
(3)

13. [4 marks]

Jomo invested an amount of money at 4% per annum **compound interest**.
At the end of 2 years, the value of his investment was £3380

How much of the £3380 was interest?

£...........................

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14.   **[3 marks]**

Serena bought a car that had a value of $16 000
At the end of each year, the value of her car had depreciated by 15%.

Calculate the value of her car at the end of 3 years.

$..........................

15.   **[3 marks]**

The population of India increased by 20% between 1989 and 1999.
The population of India increased by a further 17% between 1999 and 2009.

Calculate the percentage by which the population of India increased between 1989
and 2009.

.... %