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International Examinations Papers

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MATHEMATIC A

TOPIC- Percentages

(Reverse, repeated, compound interest)

5   On 1st May 2012, the cost of 5.7 grams of gold was 15 960 rupees.

(a) Work out the cost, in rupees, of 4.6 grams of gold on the same day.

.... rupees

(2)

The cost of gold decreased by 7.5% from 1st May 2012 to 1st May 2013 .

(b) Work out the cost, in rupees, of 5.7 grams of gold on 1st May 2013

.... rupees

(3)

(Total for Question 5 is 5 marks)

7 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)

(Total for Question 7 is 6 marks)

Do NOT write in this space.

14 Liam invests £8000 in a savings account for 4 years.
The savings account pays compound interest at a rate of

        4.5 % for the first year
        2.75 % for all subsequent years.

(a) Work out the value of Liam's investment at the end of 4 years.

£...

(3)

Max invests some money in a savings bond.
The savings bond pays interest at a rate of 2% per year.

At the end of the first year, his savings bond is worth £5763

(b) How much money did Max invest in the savings bond?

£...

(3)

(Total for Question 14 is 6 marks)

Turn over

9 Simplify $(2x + 3)^2 - (2x + 3)(x - 5)$

Give your answer in the form $ax^2 + bx + c$

(Total for Question 9 is 3 marks)

10 In a sale, normal prices are reduced by 18%
The sale price of an umbrella is £25.83

Work out the normal price of the umbrella.

£.................................

(Total for Question 10 is 3 marks)

8 In 2014, Donald's weekly pay was $640
In 2015, Donald's weekly pay was $668.80

(a) Work out the percentage increase in Donald's pay between 2014 and 2015

.... %

(3)

In 2015, Donald's weekly pay was 95% of his weekly pay in 2016

(b) Work out Donald's weekly pay in 2016

$ ....

(3)

(Total for Question 8 is 6 marks)

7 A clothes shop has a sale.

In the sale, normal prices are reduced by 12%
The normal price of a shirt is £30

(a) Work out the sale price of the shirt.

£..
(3)

The price of a coat is reduced by £9 in the sale.

(b) Work out the normal price of the coat.

£..
(3)

(Total for Question 7 is 6 marks)

3 In a sale, all normal prices are reduced by 20%

   (a) The normal price of a television set is 485 euros.
        Work out the sale price of the television set.

.... euros

(3)

   (b) In the sale, the normal price of a tablet computer is reduced by 79 euros.
        Work out the normal price of the tablet computer.

.... euros

(3)

(Total for Question 3 is 6 marks)

3   Amit invests 15 000 rupees.

At the end of one year, his investment has increased by $7\frac{1}{2}\%$

(a) Work out the value of Amit's investment at the end of one year.

.... rupees

(2)

Priya invests a sum of money at an interest rate of 8% per year.
At the end of one year, the interest she receives is 1800 rupees.

(b) Work out the value of Priya's investment at the end of one year.

.... rupees

(3)

(Total for Question 3 is 5 marks)