

January 2022 Paper 2HR

DO NOT WRITE IN THIS AREA

Roberto is going to go on holiday.

He has two coupons that will save him money on his holiday.

Coupon A

18% off the cost of the accommodation

Coupon B

12.5% off the total cost of the accommodation **and** the flights

For Roberto's holiday

the cost of the accommodation is \$1600

the cost of the flights is \$800

Roberto can only use one of the coupons.

He wants to save as much money as he can.

(b) Which of the two coupons, A or B, should he use?

Show your working clearly.

A

$$18\% \times 1600 = 288$$

$$1600 - 288 = 1312$$

Accom + flights

$$1312 + 800 = 2112$$

B

Accom + flights

$$1600 + 800 = 2400$$

$$2400 \times 12.5\% = 300$$

$$2400 - 300 = 2100$$

He should use coupon B
as it will be cheaper

(3)

(Total for Question 2 is 7 marks)



P 6 8 7 2 9 A 0 5 3 2

5

Turn over ►

January 2021 P2H

3 Gladys has a sale in her shop.

She decreases all the normal prices by 12%
The normal price of an armchair was \$550

(b) Work out the sale price of the armchair.

$$550 \times 12\% = 66$$

$$550 - 66 = \$484$$

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\$.....

(3)

(Total for Question 3 is 6 marks)



5

Turn over ►

January 2023 Paper1HR

4 Divya and Yuan each pay for a holiday at a special offer price.

Divya's holiday

Normal price: \$1600

Special offer:
16% off the normal price

Yuan's holiday

Normal price: \$1400

Special offer:
 $k\%$ off the normal price

The amount that Divya pays is the same as the amount that Yuan pays.

Work out the value of k

Divya

$$1600 \times 16\% = 256$$

$$1600 - 256 = 1344$$

$$\text{Divya pays} = 1344$$

Yuan

$$\text{Yuan pays } 1344$$

$$1400 - 1344 = 56$$

$$\text{Saving} = 56$$

$$1400 \times k\% = 56$$

$$k = 4$$

$$k = \dots$$

(Total for Question 4 is 4 marks)



January 2019 Paper 2HR

4 On Saturday, Jacob walked 10 800 steps.
On Sunday, he walked 7% more steps than on Saturday.

Work out how many steps Jacob walked on Sunday.

$$7\% \times 10800 = 756$$

$$10800 + 756 = 11556$$

(Total for Question 4 is 3 marks)

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5

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4

The price of one ounce of gold on 1st February 2016 was 1126.50 dollars.
The price of gold increased by 19% from 1st February 2016 to 1st July 2016

(b) Work out the price of one ounce of gold on 1st July 2016
Give your answer correct to the nearest dollar.

$$19\% \times 1126.50 = 214.035$$

$$1126.50 + 214.035 = 1340.536$$

$$= 1341$$

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..... dollars

(3)

(Total for Question 4 is 6 marks)**7****Turn over ►**

November 2020 P2H

5 Himari's annual salary is 3 130 000 Japanese Yen (JPY).
She gets a salary increase of 4%

(a) Work out Himari's salary after this increase.

$$4\% \times 3130000 = 125200$$

$$3130000 + 125200 = 3255200$$

.....JPY

(3)

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7

Turn over ►

6 Lorenzo increases all the prices on his restaurant menu by 8%

Before the increase, the price of a dessert was \$4.25

(a) Work out the price of the dessert after the increase.

$$4.25 \times 8\% = 0.34$$

$$4.25 + 0.34 = \$ 4.59$$

\$

(3)

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November 2024 P1H

7 Shop A and Shop B have offers for buying the same type of laptop.

The normal price of the laptop in Shop A is different to the normal price of the laptop in Shop B

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Shop A
Our normal price £475
Get 16% off our normal price

Shop B
Get 15% off our normal price $100 - 15 = 85\%$ Only pay £408

Which shop gives more money off their normal price?
Show your working clearly.

Shop A

% reduction

$$475 \times 16\% = 76$$
$$475 - 76 = 399$$

New price = £399

£76 saving

Shop B

Reverse %

$$85\% = 408$$
$$\div 85 \quad 1\% = 4.8$$
$$\times 100 \quad 100\% = 480$$
$$480 - 408 = £72$$

Saving

Shop A has the biggest
saving

(Total for Question 7 is 4 marks)

