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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)



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- 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.

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

$$550 - 66 = \$484$$

\$.....

(3)

(Total for Question 3 is 6 marks)



P 6 6 3 0 1 A 0 5 2 8

- 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	Yuan
$1600 \times 16\% = 256$	\rightarrow Yuan pays 1344
$1600 - 256 = 1344$	$1400 - 1344 = 56$
Divya pays = 1344	Saving = 56
	$1400 \times k\% = 56$
	$k = 4$

$k = \dots\dots\dots$

(Total for Question 4 is 4 marks)



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- 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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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.

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

$$1126.50 + 214.035 = 1340.536$$

$$= 1341$$

.....dollars

(3)

(Total for Question 4 is 6 marks)



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- 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.

$$4\% \times 3\,130\,000 = 125\,200$$

$$3\,130\,000 + 125\,200 = 3\,255\,200$$

.....JPY
(3)



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- 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)



P 6 0 2 6 0 A 0 7 2 4

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- 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

Shop A

Our normal price
£475

Get 16% off our
normal price

Shop B

Get 15% off our
normal price

Only pay £408

$$100 - 15 = 85\%$$

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

Shop A

% reduction

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

$$475 - 76 = 399$$

$$\text{New price} = \text{£}399$$

£76 saving

Shop B

Reverse %

$$85\% = 408$$

$$\div 85 \rightarrow 1\% = 4.8 \rightarrow \div 85$$

$$\times 100 \rightarrow 100\% = 480 \rightarrow \times 100$$

$$480 - 408 = \text{£}72$$

Saving

Shop A has the biggest
Saving

(Total for Question 7 is 4 marks)



P 7 5 9 3 4 A 0 9 2 8