

PERCENTAGE CHANGE

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.

24 Sean pays £10 for 24 chocolate bars.

He sells all 24 chocolate bars for 50p each.

Work out Sean's percentage profit.

..... %

(Total for Question 24 is 3 marks)

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Foundation Tier

2.

- 18** Bill wants to increase 150 by 3%
He writes down

$$150 \times 1.3 = 195$$

Bill's method is wrong.

- (a) Explain why.

(1)

Sally wants to decrease 150 by 3%

- (b) Complete this statement to show how Sally can decrease 150 by 3%

$$150 \times \dots = \dots$$

(1)

(Total for Question 18 is 2 marks)

Pearson Edexcel - Monday 12 November 2018 - Paper 3 (Calculator) Foundation Tier

3.

- 21** Last year Jo paid £245 for her car insurance.
This year she has to pay £883 for her car insurance.

Work out the percentage increase in the cost of her car insurance.

.....%

(Total for Question 21 is 3 marks)

4.

- 21 Renee buys 5 kg of sweets to sell.
She pays £10 for the sweets.

Renee puts all the sweets into bags.
She puts 250 g of sweets into each bag.
She sells each bag of sweets for 65p.

Renee sells all the bags of sweets.

Work out her percentage profit.

.....%

(Total for Question 21 is 4 marks)

5.

25 A force of 70 newtons acts on an area of 20 cm²

The force is increased by 10 newtons.

The area is increased by 10 cm²

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

Helen says,

“The pressure decreases by less than 20%”

Is Helen correct?

You must show how you get your answer.

(Total for Question 25 is 3 marks)

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

6.

- 30** In a sale, the normal price of a book is reduced by 30%.
The sale price of the book is £2.80

Work out the normal price of the book.

£.....

(Total for Question 30 is 2 marks)

Pearson Edexcel - Monday 6 November 2017 - Paper 2 (Calculator) Foundation Tier

7.

- 15** Mr Page uses oil to heat his home.

At the beginning of November there were 1000 litres of oil in his oil tank.

Mr Page bought enough oil to fill the tank completely.

He paid 50p per litre for this oil.

He paid a total amount of £750

At the end of February Mr Page had 600 litres of oil in the tank.

He bought enough oil to fill the tank completely.

The cost of oil had increased by 4%.

Work out the total amount Mr Page paid for the oil he bought in February.

£.....

(Total for Question 15 is 5 marks)

8.

17 Emily buys a pack of 12 bottles of water.
The pack costs £5.64

Emily sells all 12 bottles for 50p each.

Work out Emily's percentage profit.
Give your answer correct to 1 decimal place.

.....%

(Total for Question 17 is 3 marks)

Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

9.

17 Irena sells ice creams.

One day she sells 80 ice creams.

The next day she sells 108 ice creams.

Work out the percentage increase in the number of ice creams she sells.

..... %

(Total for Question 17 is 3 marks)

OCR – Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

10.

24 Lily buys and sells microwaves.

She buys each one for £32 and sells it for £60.
She also pays £7 for the delivery of each microwave she sells.

If she sells a microwave that is faulty then Lily must pay for its repair and redelivery. This costs her another £25 for each faulty microwave.

Last month, 6 out of the 80 microwaves Lily sold were faulty.

This month she has orders for 133 microwaves.

Calculate her expected percentage profit on this month's order.
Showing your working in the boxes below may help you present your work.

| | |
|---------------------------------------|-----------------------------|
| Expected number of faulty microwaves: | Expected costs: |
| Income from sales: | Expected percentage profit: |

..... % [6]

OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

11.

- 12 A jacket has its price reduced by 20% in a sale.
The sale price is £56.

Work out the price of the jacket before the sale.

£ [3]

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

12.

- 11 (a) Alice buys a picture for £180 and later sells it for £216.

Find the percentage profit that she made.

(a) % [3]

- (b) Rashid wants to increase £345 by 17% in one step by using a decimal multiplier.

Write the decimal multiplier to complete Rashid's calculation.

345 ×

[1]

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

13.

- 18 (a) Write down the multiplier for an increase of 140%.
Give your answer as a decimal.

(a) [1]

- (b) Ali invests £1500 in October.
The investment increases in value by 10% in November.
It then decreases in value by 20% in December.

Ali says

$10\% - 20\% = -10\%$, so the £1500 has lost exactly 10% of its value.

- (i) Explain what Ali has done wrong.

.....
..... [1]

- (ii) Work out the correct percentage loss.

..... % [5]

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

14.

- 20** Amrit's income is 32% more than Bethan's income.
Amrit and Bethan's combined income is £54 868.

Calculate Amrit's income.

£ [5]

OCR Thursday 6 June 2019 – Morning (Non-Calculator) Foundation Tier

15.

15 Ed has a card shop.

(a) He buys a particular card for £1.20 and sells it for £1.68.

Calculate his percentage profit on this card.

(a) % [3]

(b) Ed's profit on "Good Luck" cards in 2018 was £360.
This was a decrease of 20% on his profit in 2017.

Work out Ed's profit on "Good Luck" cards in 2017.

(b) £ [3]

16.

18 Adam buys some theatre tickets in a sale.

The normal prices are:

£80 for each adult
£40 for each child.

In the sale, the prices are reduced by 15%.
Adam buys 2 adult tickets and 1 child ticket at the sale price.
A 2% booking fee is then added to the total cost of the tickets.

Calculate the total amount that Adam must pay.



£ [6]

OCR Thursday 8 November 2018 – Morning (Non-Calculator) Foundation Tier

17.

- 18 Emily spent £2400 on holiday in 2017.
This was 20% more than she spent on holiday in 2016.

Calculate the amount she spent on holiday in 2016.

£ [3]

OCR Monday 12 November 2018 – Morning (Calculator) Foundation Tier

18.

8 This table shows the ticket price for each person to visit a zoo in winter.

| Type of ticket | Ticket price |
|--------------------------|--------------|
| Adult (aged 18 and over) | £18 |
| Child (aged 3 to 17) | £14 |
| Child (aged below 3) | Free |

(a) A family of two adults, one child aged 8 and one child aged 1 visit the zoo in winter.

What is the total cost of the tickets?

(a) £ [2]

(b) In summer, the zoo increases the prices.

An Adult ticket increases by 20%.

A Child ticket increases by 15%.

How much more does it cost the family to visit in the summer than in the winter?

(b) £ [4]

OCR Monday 24 May 2018 – Morning (Calculator) Foundation Tier

19.

3 (a) Write 48 as a percentage of 200.

(a)% [1]

(b) Work out $\frac{1}{4}$ of 80.

(b) [1]

(c) Decrease 650 by 40%.

20.

17 The price of a computer was £750.

In a sale the price is reduced by 20%.

On the final day the **sale price** is reduced by a further 12%.

How much is saved in total by buying the computer on the final day of the sale?

£ [5]

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

21.

- 15** In July the price of a holiday is £500.
In August the price increases by 25%.
In September the price drops to £500 again.

Work out the percentage decrease from the August price to the September price.

..... % [4]

OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

22.

- 10 (a)** Write 62 as a percentage of 500.

(a) % [3]

- (b)** Increase £196 by 9%.

(b) £ [3]

Pearson Edexcel – Sample Papers - Paper 1 (Non-Calculator) Foundation Tier

23.

20 In a sale, normal prices are reduced by 20%.
The normal price of a coat is reduced by £15

Work out the normal price of the coat.

£.....

(Total for Question 20 is 2 marks)

AQA Sample Paper 3– Morning (Calculator) Foundation Tier

24.

22 In 1999 the minimum wage for adults was £3.60 per hour.
In 2013 it was £6.31 per hour.

Work out the percentage increase in the minimum wage.

[3 marks]

Answer _____ %