

PERCENTAGES

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Foundation Tier

1.

19 Here are the types of sandwiches sold in a cafe last week.

Sandwiches
Tuna
Cheese
Chicken
Egg

56 tuna sandwiches were sold.

This was 40% of the total number of sandwiches sold.

(a) Work out the total number of sandwiches sold.

.....
(2)

Of the 56 tuna sandwiches sold, 18 were sold on Friday.

(b) Write 18 as a percentage of 56

Give your answer correct to the nearest whole number.

..... %
(2)

(Total for Question 19 is 4 marks)

Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

2.

- 22** A bonus of £2100 is shared by 10 people who work for a company.
40% of the bonus is shared equally between 3 managers.
The rest of the bonus is shared equally between 7 salesmen.

One of the salesmen says,

“If the bonus is shared equally between all 10 people I will get 25% more money.”

Is the salesman correct?

You must show how you get your answer.

(Total for Question 22 is 5 marks)

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

3.

- 11** Adam gets a bonus of 30% of £80
Katy gets a bonus of £28

Work out the difference between the bonus Adam gets and the bonus Katy gets.

£.....

(Total for Question 11 is 3 marks)

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

4.

- 11** There are men and women at a meeting.

There are 28 women.

30% of the people at the meeting are men.

Work out the total number of people at the meeting.

.....

(Total for Question 11 is 3 marks)

Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Foundation Tier

5.

15 Work out 15% of 160 grams.

..... grams

(Total for Question 15 is 2 marks)

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

6.

15 There are only red buttons, yellow buttons and orange buttons in a jar.
The number of red buttons, the number of yellow buttons and the number of orange buttons are in the ratio 7:4:9

Work out what percentage of the buttons in the jar are orange.

..... %

(Total for Question 15 is 2 marks)

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

7.

1 Find 10% of £320

£.....

(Total for Question 1 is 1 mark)

8.

13 Ryan and Carl each get paid a basic pay of £60 per day.

One day, Ryan also gets a bonus of 25% of his basic pay.

Carl also gets £20 in tips from customers.

Work out the difference between the total amounts of money that Ryan and Carl each get.

.....

(Total for Question 13 is 3 marks)

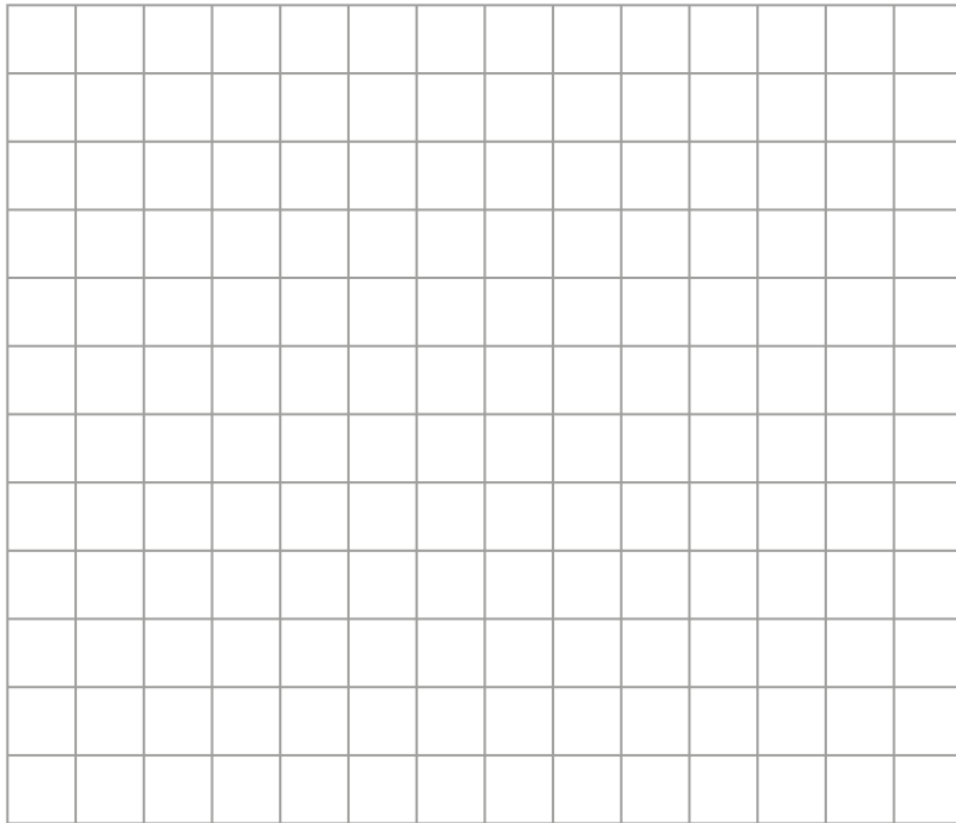
9.

14 Some people were asked if they liked swimming or cycling or running.

The table shows the results for the males and the results for the females.

	Swimming	Cycling	Running
Male	2	6	4
Female	8	5	5

(a) On the grid, draw a bar chart to show this information.



(4)

(b) Work out the percentage of the 30 people that are female.

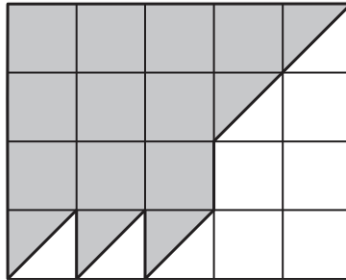
..... %
(2)

(Total for Question 14 is 6 marks)

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

10.

9 What percentage of this shape is shaded?



..... %

(Total for Question 9 is 3 marks)

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

11.

12 In an exam, Adam scored the following marks.

Paper 1	17 out of 20
Paper 2	19 out of 25

(a) Show that he scored a higher percentage in Paper 1 than Paper 2.

[2]

(b) The two marks are added together.

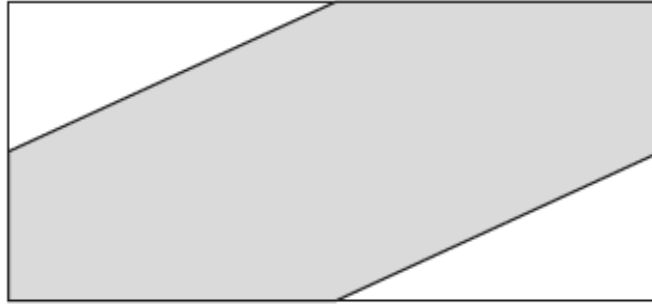
Work out Adam's overall percentage for the two papers.

(b)% **[3]**

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

12.

13 The midpoints of the sides of a rectangle are joined by straight lines as shown.



Work out the percentage of the rectangle that is shaded.

..... % [4]

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

13.

- 4 Work out 20% of 40.

..... [2]

OCR Thursday 7 June 2018 – Morning (Non Calculator) Foundation Tier

14.

- 14 Here is the nutritional information for a 110g serving of cereal.

Carbohydrates	99.4g
Proteins	9.5g
Fats	1.1g

Emily says that more than 90% of this serving is carbohydrates.

Is she correct?
Explain your reasoning.

.....
..... [3]

OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

15.

- 12 Jack carries out a survey in his school.
He selects 50 students, at random, and asks them

Do you think that it is a good idea to have women-only railway carriages?

These are his results.

	Number of students
Yes	32
No	13
Don't know	5

- (a) What percentage of the students in Jack's survey answered 'Yes'?

(a) % [3]

- (b) Jack says

My survey shows that people in England think that it is a good idea to have women-only railway carriages.

Explain why Jack may be wrong.

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

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

16.

- 8 Work out 15% of 80

.....
(Total for Question 8 is 2 marks)

17.

25 In a company, the ratio of the number of men to the number of women is 3:2

40% of the men are under the age of 25

10% of the women are under the age of 25

What percentage of all the people in the company are under the age of 25?

.....%

(Total for Question 25 is 4 marks)

Pearson Edexcel – Sample Papers - Paper 3 (Calculator) Foundation Tier

18.

9 Work out 234% of 150

(Total for Question 9 is 2 marks)

OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

19.

20 Mo's tyre pressure gauge shows a reading which is 12% higher than the actual pressure.

What is the actual pressure when Mo's gauge shows 38.64?

..... **[3]**

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

20.

9 Lillian works 7 hours each day for 5 days a week.
She earns £420 each week.

(a) How much does she earn per hour?

(a) £ [3]

(b) Lillian decides that she is going to work 7 hours each day for **only 4 days** a week.
Her earnings are to be reduced by 20%.
Lillian thinks that this reduction is reasonable.

(i) Explain why a reduction of 20% is reasonable.

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

(ii) How much will Lillian earn working 4 days a week?

(b)(ii) £ [2]

AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

21.

- 28** Alex and Bev sat six tests, each with 50 marks.
The table shows their mean percentages after five tests.

Alex	60%
Bev	52%

After all six tests, their mean percentages were equal.

In the sixth test, Alex scored 24 out of 50

Work out Bev's score, out of 50, in the sixth test.

[4 marks]

Answer _____ out of 50

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

22.

- 22** Three friends arrive at a party.
Their arrival increases the number of people at the party by 20%
In total, how many people are now at the party?

[2 marks]

Answer _____

23.

25 Joe and Kyle share an amount of money in the ratio $7 : n$
Joe gets 35% of the money.

Work out the value of n .

[2 marks]

Answer _____

AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

24.

30 Work out the percentage increase from 80 to 280

[3 marks]

Answer _____ %

AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

25.

24 The table shows information about the population of a city.

Population in 2001	Population in 2011
420 000	480 000

Liam claims,

“From 2011 to 2021 the population of the city will increase by the same percentage as from 2001 to 2011”

He works out,

$$\begin{aligned} \text{population increase from 2001 to 2011} &= 480\,000 - 420\,000 \\ &= 60\,000 \end{aligned}$$

$$\begin{aligned} \text{population in 2021} &= 480\,000 + 60\,000 \\ &= 540\,000 \end{aligned}$$

Does the population of 540 000 match his claim?

You **must** show your working.

[3 marks]

Answer _____

AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

26.

- 15** 5% of a number is 31
 1% of the same number is 6.2
 Work out 13% of the number.

[3 marks]

Answer _____

AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

28.

20 An exam has two papers.

Anil scores

33 out of 60 on paper 1

and

75 out of 100 on paper 2

Work out his percentage score for the exam.

[3 marks]

Answer _____ %

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

29.

8 Work out 51% of 400

[2 marks]

Answer _____

AQA Sample Paper 3– Morning (Calculator) Foundation Tier

30.

16 24 boys, 45 girls and 281 adults are the members of a badminton club.
50 more children join the club.
The number of girls is **now** 18% of the total number of members.

How many of the 50 children were **boys**?

[4 marks]

Answer _____

