

Name:

Date:

Percentages

GCSE

Edexcel
Mathematics
Grade (9-1)

Mark

Score (%)

<hr/> 63	
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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

1 Work out 15% of £75

£.....

(Total for question 1 is 1 marks)

2 Calculate 85% of 40

.....

(Total for question 2 is 1 marks)

3 Find 46% of 3000

.....

(Total for question 3 is 2 marks)

4 Work out 21% of 350 millilitres

.....millilitres

(Total for question 4 is 2 marks)

5 Work out 40% of 1250 milligrams

.....milligrams

(Total for question 5 is 2 marks)

6 Find 33% of £140

£.....

(Total for question 6 is 2 marks)

7 A bag of biscuits contains 510g.
 A special offer packet contains an extra 20%.
 Work out how much extra biscuit is in the special offer packet.

.....grams
(Total for question 7 is 2 marks)

8 Which is greater
 22% of 95 or 26% of 87
 You must show your working.

.....
(Total for question 8 is 3 marks)

9 Which is greater
 33% of 108 or 37% of 97
 You must show your working.

.....
(Total for question 9 is 3 marks)

10 Sara wins £400.
 She gives 50% to her mother.
 Mary gives 20% to her brother.
 She keeps the rest.

Work out how much each person receives.

Mother £.....

Brother £.....

Sara £.....

(Total for question 10 is 3 marks)

11 Tom gets a bonus of 25% of £140
 Sam gets a bonus of £30

Work out the difference between the bonus Tom gets and the bonus Sam gets

£.....

(Total for question 11 is 3 marks)

- 12** There are adults and children in a cinema.
There are 56 adults.
30% of the people at the cinema are children.

Work out the total number of people at the cinema.

.....
(Total for question 12 is 3 marks)

- 13** A new car is priced at £6450.
In a sale it is reduced by 15%.
- Calculate the reduction in price.

£.....
(Total for question 13 is 3 marks)

- 14** Laura is paid £27000 per year.
She is going to get a 7% increase in the amount of money she is paid.

Work out how much money Laura will be paid per year after the increase

£.....

(Total for question 14 is 3 marks)

- 15** Richard's salary is £12 000 and he is due to get an increase of 3%.
Calculate how much this increase will be.

£.....

(Total for question 15 is 3 marks)

16 Oliver wants to buy a car that costs £4500.

He saves 25% of his wages each month.

Each month Harry earns £700.

Calculate how many months it will take Oliver to save enough money.

..... months

(Total for question 16 is 3 marks)

17 Emma invests £500 for 5 years in a bank account.

The account pays simple interest at a rate of 2.5% per year.

Work out the total amount of interest Emma has got at the end of 6 years.

£.....

(Total for question 17 is 3 marks)

- 18** James invests £700 for 4 years in a bank account.
The account pays simple interest at a rate of 1.5% per year.

Work out the total amount of interest James has got at the end of 4 years.

£.....

(Total for question 18 is 3 marks)

- 19** A company is hosting a charity meal.
500 people work for the company.
It is estimated 85% of the employees will attend.
It is expected that if an employee attends, they will bring a partner.
The cost of attending the meal is £6.
How much money will be raised for charity?

£.....

(Total for question 19 is 3 marks)

- 20** Two glasses contain apple juice.
Glass 1: A 500ml glass is 30% full.
Glass 2: A 400ml glass is half full.
- Which glass contains less apple juice?

.....
(Total for question 20 is 3 marks)

- 21** Sophia wants to buy 8 tins of beans for the cheapest possible price. Shop A and Shop B both have a special offer.

Shop A

15% off the normal price of 68p

Shop B

85p each
Buy 2 get 1 free

Which shop should Sophia buy the beans from?
You must show how you get your answer.

.....
(Total for question 21 is 3 marks)

22 Amelia bakes 540 cupcakes for a function.
She bakes only vanilla cupcakes, banana cupcakes and chocolate cupcakes.

170 of the cakes are vanilla cakes.
37% of the cakes are banana cakes.

Work out the number of chocolate cakes Amelia bakes.

..... cakes
(Total for question 22 is 3 marks)

23 Charlotte and Olivia did a test.
The total for the test was 91 marks.

Charlotte got 86% of the 91 marks.
Olivia got 52 out of 91

Who got the highest mark?
You must show all your working.

.....
(Total for question 23 is 3 marks)

- 24 Some students sit an exam.
The pass mark is 70%.
There are 75 marks in each test.

Here are the results:

Mia	47 marks
Eva	57 marks
Sam	52 marks
Emma	37 marks
Richard	26 marks
Isabella	64 marks
William	51 marks

Work out the percentage of the students passed the exam.

.....
(Total for question 24 is 3 marks)