



Maths-it Podcast F-05

Foundation GCSE Revision

Percentage

Topics

Calculating percentages, with and without a calculator
Converting between fractions, decimals and percentages
Calculating increase and decrease of percentages

Questions

1.

Football Survey

- 40% of people named football as their favourite sport.
- 83% said they thought professional footballers in Europe are paid too much.
- About 4.2 million people in England play football regularly.
- $\frac{2}{25}$ of these are female.



- (a) Write 40% as a fraction.
Give your fraction in its simplest form.

..... (2)

- (b) Write 83% as a decimal.

..... (1)

- (c) Write 4.2 million in figures.

..... (1)

- (d) Write $\frac{2}{25}$ as a percentage.

.....% (1)

- (e) What percentage of people did **not** name football as their favourite sport?

.....% (1)

(Total 6 marks)



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2. There are 1200 students at Sheffton School. 275 of these students were absent from school on Wednesday.



(a) Work out how many students were **not** absent on Wednesday.

..... (2)

Billy says that more than 25% of the 800 students were absent on Wednesday.

(b) Is Billy correct? Explain your answer.

.....
..... (2)

(c) 55% of these 1200 students are girls. Work out 55% of 1200

..... (2)

(d) There are 144 students in Year 12. Write 144 out of 1200 as a percentage.

.....% (2)
(Total 8 marks)

3. (a) Write 0.73 as a percentage.

.....% (1)

(b) Write $\frac{1}{4}$ as a percentage.

.....% (1)

(c) Write 41% as a fraction.

..... (1)

(d) Write 60 as a fraction of 220
Give your fraction in its simplest form.

..... (2)



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4. Zadie scored 17 out of 20 in a test.

Write this score as a percentage.

(Total 5 marks)



..... %

(Total 2 marks)

5. (a) Write 21% as a fraction.



.....

(1)

(b) Write 0.6 as a percentage.

.....%

(1)

(c) Write 4% as a decimal.

.....

(1)

(d) Work out 20% of 700.

.....

(2)

(Total 5 marks)

6. Work out 76% of £130

£

(Total 2 marks)

7. In a wholesale store the cost of a printer is £48 without VAT.

What is the cost of the printer including VAT at 17.5%?



£

(Total 2 marks)



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8. In 2007, Frobingham Amateur Dramatics Society's yearly income came from a Council grant and by selling tickets.

Council grant £250
Ticket sales 1250 at £5 each.

- (a) (i) Work out the total income of the society for the year 2007.

£

- (ii) Find the council grant as a percentage of the society's total income for 2007.

..... (3)

In 2006, the society's total income was £6000.
The club spent 60% of its total income on a venue.
It spent a further £250 on refreshments.

- (b) Work out how much remained.

..... (3)
(Total 6 marks)

9. In a sale, all items are reduced by 33%.

What is the sale price of a hat that was £16.50 before the sale?



£ (Total 2 marks)