



Maths-it Podcast F-03

Foundation GCSE Revision

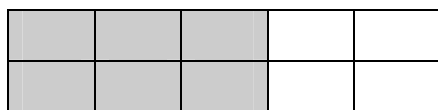
Fractions

Topics

Equivalent fractions – Ordering fractions – Converting fractions to decimals and percentages
Improper fractions and mixed numbers – Calculating with fractions

Questions

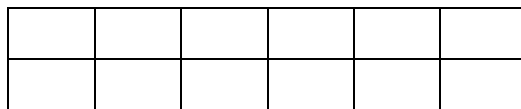
1.



- (a) (i) What fraction of this shape is shaded? Write your fraction in its simplest form.

.....

- (ii) Shade $\frac{1}{3}$ of this shape.



(3)

9 is the number that is half way between 6 and 12

69..... 12

- (b) Work out the number that is half way between

(i) 10 11

(ii) $1\frac{1}{2}$ 2

(iii) $\frac{1}{4}$ $\frac{1}{2}$

(4)

- (c) Find the point on the line AB that is **exactly** $\frac{2}{3}$ of the way along the line **from** A .
Mark this point with a cross (\times).



(1)

(Total 8 marks)



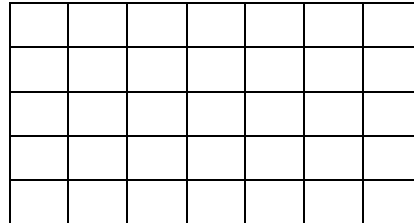
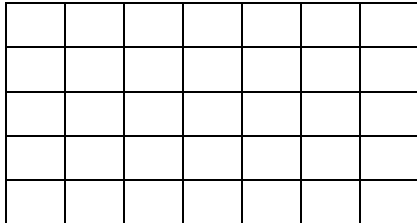
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2. Here are two fractions $\frac{2}{5}$ and $\frac{3}{7}$
Explain which is the smaller fraction.

You may use the grids to help with your explanation.



.....
.....
.....

(Total 3 marks)

3. Abigail bought a box of 120 eggs for £20.
 $\frac{2}{15}$ of the 120 eggs were cracked so she threw them away.
She sold the remaining eggs at x pence each.
She made a profit of 30%.

Calculate the value of x .

$x =$

(Total 5 marks)



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4. Write these numbers in order of size.
Start with the smallest number.

(i) $\frac{1}{2}, \frac{2}{3}, \frac{2}{5}, \frac{3}{4}$

.....

(i) $\frac{1}{2}, \frac{3}{7}, \frac{5}{14}, \frac{11}{28}$

.....

(i) $0.2, \frac{1}{10}, 0.3, \frac{3}{4}$

.....

(Total 10 marks)

5. Here are six numbers

$$40\% \quad \frac{4}{10} \quad \frac{6}{15} \quad 0.25 \quad 0.4 \quad 2.5\%$$

Two of the numbers are **not** equal to $\frac{2}{5}$

Draw a circle around each of the two numbers.

(Total 2 marks)

6. Write down the reciprocal of 4

.....

(Total 1 mark)



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7. Here are some fractions.

$\frac{2}{8}$	$\frac{3}{10}$	$\frac{4}{16}$	$\frac{5}{20}$	$\frac{8}{24}$

Two of the fractions are **not** equivalent to $\frac{1}{4}$.

Tick the boxes underneath each of these **two** fractions.

(Total 2 marks)

8. A school has 900 pupils.
460 of these pupils are girls.

$\frac{2}{5}$ of the boys like drama.

$\frac{3}{5}$ of the girls like drama.

Work out the total number of pupils in the school who like drama.

.....
(Total 3 marks)



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9. Billy collects football stickers. He has 30 that he has already got, so he gives them to his friends.

He gives Roxy $\frac{3}{5}$ of the stickers.

He gives Giles $\frac{1}{10}$ of the stickers.

He gives the rest to Alice.

How many stickers does Billy give to Alice?

.....
(Total 3 marks)

10. Saima spent $\frac{1}{4}$ of her pocket money on a computer game.

She spent $\frac{1}{5}$ of her pocket money on a ticket for a concert.

Work out the fraction of her pocket money that she had left.

.....
(Total 3 marks)



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11. Work out

$$3\frac{3}{4} \times 2\frac{2}{3}$$

.....
(Total 3 marks)

12. (a) Work out $\frac{2}{5} + \frac{3}{8}$

..... (2)

(b) Work out $5\frac{2}{3} - 2\frac{3}{4}$

..... (3)
(Total 5 marks)