

Fractions, Decimals and Percentages

discia.org · 10 questions · 19 marks

NAME _____

DATE _____

1 (a) Write 15% as a decimal.

 EITHER PAPER 2 MARKS

(b) Write 15% as a fraction in its simplest form.

2 Express $\frac{24}{50}$ as a percentage.

 NON-CALCULATOR 1 MARK

3 The table shows some fractions, decimals and percentages that are worth knowing by heart. Three of the boxes are empty.

 EITHER PAPER 3 MARKS

Fraction	Decimal	Percentage
$\frac{9}{10}$	(a)	90%
(b)	0.7	70%
$\frac{1}{5}$	0.2	(c)

(a) Write down the decimal that goes in box (a).

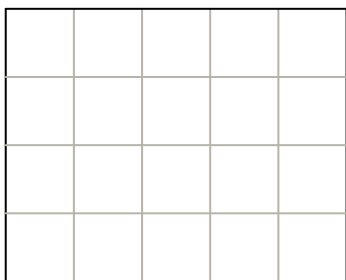
(b) Write down the fraction that goes in box (b). Give it in its simplest form.

(c) Write down the percentage that goes in box (c).

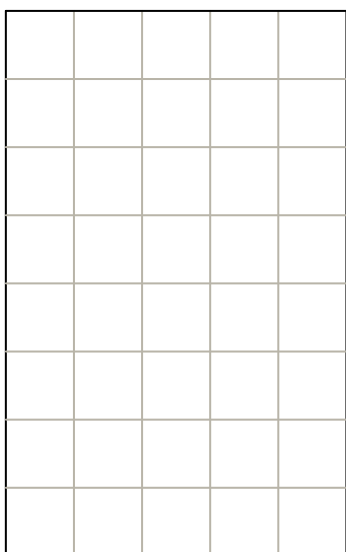
4 Each part has its own grid of equal squares.

 EITHER PAPER 2 MARKS

(a) Shade $\frac{9}{10}$ of the grid. The grid is made of 20 equal squares.



(b) Shade 35% of the grid. The grid is made of 40 equal squares.



5 Two of these six numbers are equal.

 EITHER PAPER 1 MARK

$\frac{4}{3}$ 0.75 75% $\frac{3}{40}$ 75 750%

Write down the two numbers.

6 Work out $\frac{1}{20} + 0.39$

 EITHER PAPER 1 MARK

Give your answer as a decimal.

7 (a) Write 0.425 as a fraction.

EITHER PAPER 3 MARKS

Give your answer in its simplest form.

(b) Write 0.425 as a percentage.

8 (a) Write $\frac{3}{20}$ as a decimal.

EITHER PAPER 2 MARKS

(b) Write $\frac{3}{20}$ as a percentage.

9 Write these numbers in order of size, starting with the smallest.

EITHER PAPER 2 MARKS

$\frac{7}{20}$ 0.25 20% $\frac{1}{10}$

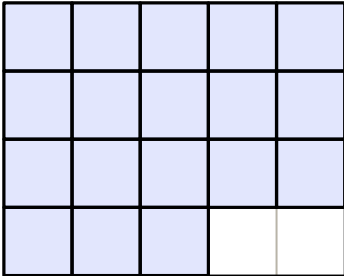
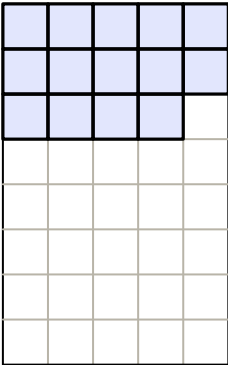
Write each number as a percentage.

10 Pace Sports takes $\frac{9}{20}$ off the price of a pair of running shoes.

EITHER PAPER 2 MARKS

Rundale Sports takes 39% off the price of the same pair of running shoes.

Which shop gives the bigger discount? You must show your working.

1	(a) 0.15 (b) $\frac{3}{20}$	2	48%
3	(a) 0.9 (b) $\frac{7}{10}$ (c) 20%	4	(a) Any 18 of the 20 squares shaded (b) Any 14 of the 40 squares shaded (a)  (b) 
5	The decimal and the percentage: the two numbers with the value $\frac{3}{4} = 0.75 = 75\%$	6	0.44
7	(a) $\frac{17}{40}$ (b) 42.5%	8	(a) 0.15 (b) 15%
9	10%, 20%, 25%, 35%	10	Pace Sports