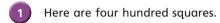
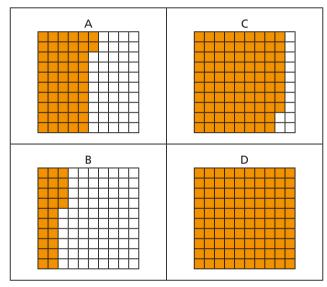
Percentages as fractions and decimals





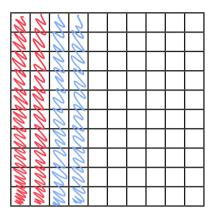


Complete the table.

Hundred square	Percentage	Fraction	Decimal
А	52 %	<u>52</u> 100	0.52
В	24°/.	24 100	0.24
С	88.1.	100	0.88
D	100%	100	l

2 Prove that 0.2 is equal to 20%.

You may use the hundred square to help you.



$$0.2 = 2 \text{ tenths} = \frac{2}{10} = \frac{20}{100}$$

Why do you think some people think that 0.2 is equal to 2%?



3 Complete the fraction, decimal and percentage equivalents.

a)
$$32\% = \frac{32}{100} = \boxed{0.32}$$

c)
$$0.29 = \boxed{29}\% = \boxed{\frac{29}{100}}$$

b)
$$\frac{17}{100} = \boxed{}\% = \boxed{}\% = \boxed{}$$

$$\frac{9}{100} = \boxed{9}$$
 % = $\boxed{0.09}$

- Write <, > or = to complete the statements.
 - a) 50% $> \frac{5}{100}$
- d) $\frac{40}{100}$ (=) 40%
- **b)** 25% $\left(< \right) \frac{50}{100}$
- e) $\frac{70}{100}$ (7) 7%
- c) 14% $\left(\begin{array}{c} \\ \\ \end{array}\right) \frac{41}{100}$
- f) 82% $\left(\begin{array}{c} \\ \\ \end{array}\right) \frac{82}{100}$
- Write the values in order from smallest to greatest.
 - a) 33%
- 3
 - 3%
- 13
- 3%, 13/100, 30/100, 33%
- **b)** 299% $\frac{91}{100}$ 9% $\frac{9}{1}$
 - 9% 9 91 2999
- c) 2.5 $\frac{25}{100}$ 250 25% of 100 $\frac{25}{1000}$
 - 150 100 2·5 25% of 100 25C
- 6 Convert the fractions to hundredths.
 - Complete the decimal and percentage equivalents.
 - a) $\frac{150}{300} = \frac{50}{100} = \frac{50}{50} = \frac{50}{50}$
 - **b)** $\frac{25}{500} = \frac{5}{100} = 0.05 = 5$
 - c) $\frac{48}{300} = \frac{16}{100} = 0.6 = 16$

- d) $\frac{18}{50} = \frac{36}{100} = 0.36 = 36$
- e) $\frac{13}{25} = \frac{52}{100} = 0.52 = 52$
- Circle all the fractions that are greater than or equal to 50%.
 - <u>10</u> 50

 $\frac{4}{5}$

50 100

30 80 <u>1</u> 50

- 70 140
- Jack and Dora go shopping with the same amount of money. Jack spends $\frac{1}{3}$ of his money.

Dora spends 30% of her money.

u) Who spends more money? <u>Jade</u>

Use fraction and percentage equivalence to explain your answer.

$$\frac{1}{3} = \frac{10}{30}$$
$$30\% = \frac{3}{10} = \frac{9}{30}$$

b) Jack and Dora each started with £300 How much money do they each have left?



Jack £200

Dora £210