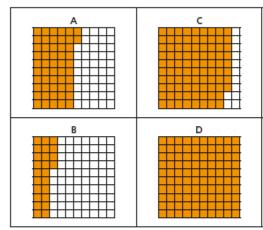
## Percentages as fractions and decimals





Here are four hundred squares.



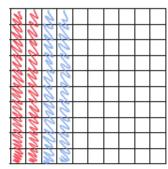
## Complete the table.

|  | Hundred<br>square | Percentage | Fraction         | Decimal |
|--|-------------------|------------|------------------|---------|
|  | Α                 | 52*/.      | <u>52</u><br>100 | 0.52    |
|  | В                 | 24.4       | 24<br>100        | 0.24    |
|  | С                 | 88 1,      | 100              | 0-88    |
|  | D                 | 100%       | 100              | l.      |



Prove that 0.2 is equal to 20%.

You may use the hundred square to help you.



20% = 100



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



- Write <, > or = to complete the statements.
  - a) 50%  $\bigcirc$   $\frac{5}{100}$
- d) 40 = 40%
- b) 25% < 50 100
- e)  $\frac{70}{100}$  (7) 7%
- c) 14% (<) 41/100
- f) 82% = \frac{82}{10}
- Write the values in order from smallest to greatest.
  - a) 33% 30 100 3%
    - 3 %, 13 30 33 %
  - b) 299% 91 9% 9 10
  - c) 2.5  $\frac{25}{100}$  250 25% of 100  $\frac{25}{1000}$
- Convert the fractions to hundredths.

Complete the decimal and percentage equivalents.

a) 
$$\frac{150}{300} = \frac{50}{100} = 0.5$$

b) 
$$\frac{25}{500} = \frac{5}{100} = 0.05 = 5$$

c) 
$$\frac{48}{300} = \frac{16}{100} = 0.16 = 16$$
 %

- 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%.

10 50





30 80 1 50



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.

Who spends more money? \_\_\_\_\_\_\_\_

Use fraction and percentage equivalence to explain your answer.

$$\frac{1}{3} \le \frac{10}{30}$$
$$30\% = \frac{2}{10} = \frac{9}{30}$$

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



Jack £200

Dora (210