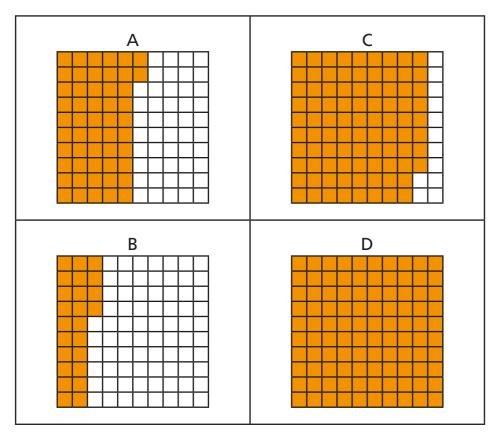
## Percentages as fractions and decimals



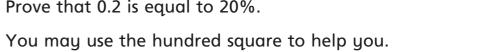
Here are four hundred squares.

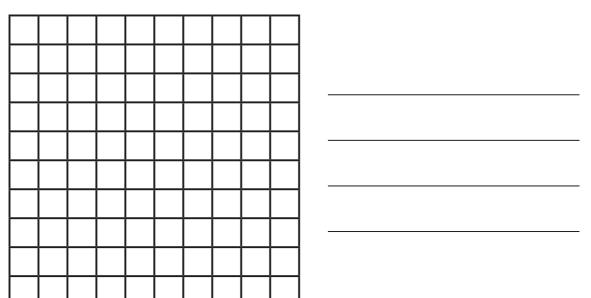


Complete the table.

Hundred square	Percentage	Fraction	Decimal
А		<u>52</u> 100	
В			
С			
D			

2	Prove that 0.2 is equal to 20%
	11000 that 0.2 is equal to 20 /0





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



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



- 4 Write <, > or = to complete the statements.
  - a) 50%  $\frac{5}{100}$
- d)  $\frac{40}{100}$   $\left(\right)$  40%
- **b)** 25%  $\left(\right)$   $\frac{50}{100}$
- e)  $\frac{70}{100}$   $\left(\right)$  7%
- c) 14%  $\left( \right) \frac{41}{100}$
- f) 82%  $\left( \right) \frac{82}{100}$
- Write the values in order from smallest to greatest.
  - a) 33%  $\frac{30}{10}$
- 3%
- 13 100
- **b)** 299%  $\frac{91}{100}$  9%  $\frac{9}{1}$
- c) 2.5  $\frac{25}{100}$  250 25% of 100  $\frac{25}{100}$



6 Convert the fractions to hundredths.

Complete the decimal and percentage equivalents.

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

**b)** 
$$\frac{25}{500} = \frac{}{100} = \frac{}{}$$
 %

c) 
$$\frac{48}{300} = \frac{100}{100} = \frac{9}{100}$$

- d)  $\frac{18}{50} = \frac{100}{100} = \frac{1}{100}$
- e)  $\frac{13}{25} = \frac{1}{100} = \frac{1}{100}$
- 7 Circle all the fractions that are greater than or equal to 50%.
  - <u>10</u> 50

<u>4</u> 5 <u>50</u> 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.

Who spends more money?
 Use fraction and percentage equivalence to explain your answer.

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



