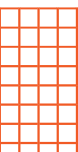


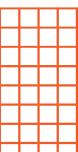
Knowledge Organiser

Order Fractions, Decimals and Percentages

$\frac{3}{10}$
 $>$
25%
 $>$
0.2

Three 10x10 grids are shown, each representing a different fraction. The first grid is purple and has 2 rows shaded, representing 0.2. The second grid is orange and has 2.5 rows shaded, representing 25%. The third grid is blue and has 3 rows shaded, representing 3/10.

0.2		$\frac{20}{100} = 20\%$
25%		$\frac{25}{100} = 25\%$
$\frac{3}{10}$		$\frac{30}{100} = 30\%$

0.2		$\frac{20}{100} = 20\%$
25%		$\frac{25}{100} = 25\%$
$\frac{3}{10}$		$\frac{30}{100} = 30\%$

$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$				

$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$				

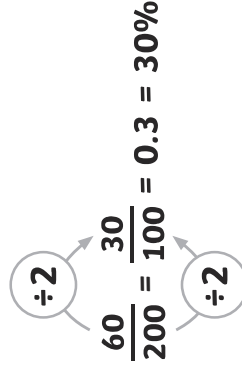
$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$				

$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$				

$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$				

$\frac{3}{10}$	$>$	$\frac{25}{100} = 25\%$	$>$	0.2
			$=$	
$\frac{30}{100} = 30\%$	$\frac{25}{100} = 25\%$	$\frac{20}{100} = 20\%$	$=$	$\frac{80}{100} = 80\%$
80%	$=$	0.8	$=$	$\frac{80}{100} = 80\%$
			$=$	$\frac{80}{100} = 80\%$
$\frac{80}{100} = 80\%$	$\frac{80}{100} = 80\%$	$\frac{80}{100} = 80\%$	$=$	$\frac{80}{100} = 80\%$

Order Fractions, Decimals and Percentages



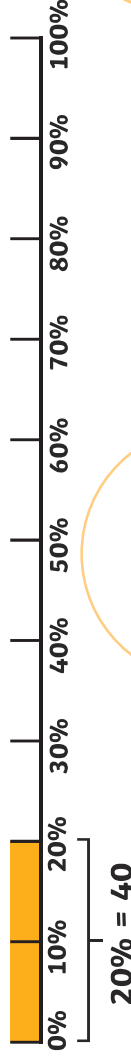
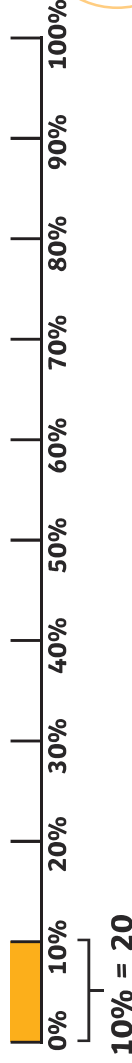
Finding a Percentage of an Amount

$50\% = \frac{1}{2}$ so we can divide by 2

$10\% = \frac{1}{10}$ so we can divide by 10

$25\% = \frac{1}{4}$ so we can divide by 4

$1\% = \frac{1}{100}$ so we can divide by 100



10% of 200

$$200 \div 10 = 20$$

$\times 2$

$$20 \times 3 = 60$$

$$30\% = 60$$

35% of 200 = ?

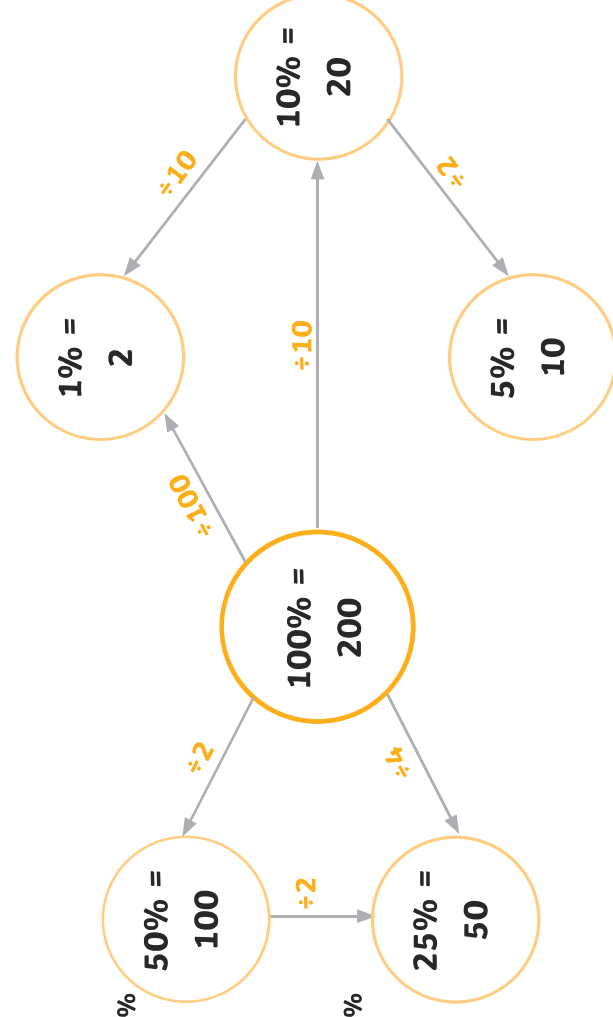
$$20 \div 2 = 10$$

$$5\% = 10$$

$$35\% = 30\% + 5\%$$

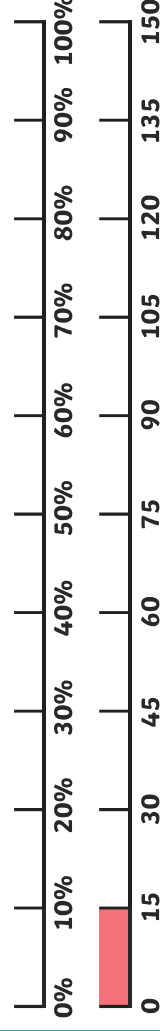
$$60 + 10 = 70$$

so 35% of 200 = 70



Percentages – Missing Values

Whole value (100%) of bar model = ?



10% = 15

We know 10% = 15

$$10\% \times 10 = 100\% \text{ (the whole)}$$

$$\text{so } 15 \times 10 = 150$$