# Fractions, decimals and percentages – writing tenths as decimals



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# Fractions, decimals and percentages – writing tenths as decimals

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Label this section of a ruler as centimetres in decimals. The first box has been done for you. (Note this diagram has been enlarged so you can see the lines clearly.)



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TOPIC

# Fractions, decimals and percentages – writing tenths as decimals



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TOPIC

Fractions, decimals and percentages – relating tenths, hundredths and decimals



		Hundreds	Tens	Units		Tenths	Hundredths
а	2.6				•		
b	3.76				•		
С	112.6				•		
d	45.67				•		



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# Fractions, decimals and percentages – relating tenths, hundredths and decimals



Shade the fractions on the grid and show them as hundredths and decimals:





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Show where the decimals fit on the number lines:





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# Fractions, decimals and percentages – introducing percentages



**1** Colour this hundred square according to the directions:

					a	8%	green
					b	10%	pink
					с	15%	brown
 					d	20%	orange
					е	12%	yellow
 					f	20%	red
					g	Leave	the rest blank.
						What	percentage is this?

2 The most commonly used percentage amounts are in the table below. Complete the table and shade a hundredth grid for each amount. The first one has been done for you.

	а	b	С	d	е
Percentage	50%	25%	10%	75%	20%
Hundredths	<u>50</u> 100				
Decimal	0.5				
Fraction	$\frac{1}{2}$				
Hundredth grid					



# Fractions, decimals and percentages – introducing percentages

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Often you can see percentages in shops when it is sale time. Work out the sale price of these items:



4 Pie charts are used to show information clearly and are often colour coded. Complete the pie charts according to the information. Each whole pie chart is 100% and each segment is 10%. Choose a colour for each bit of information.

a 100 people were surveyed about their favourite weekend activities.

Go to a restaurant 30%
Go to the beach 10%
See a movie 20%
Go shopping 20%
Play sport 20%

**b** 200 people were surveyed about their favourite food.









THINK



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### 100 hundredths

### apply



This is a game for 2 players. Each player will need a copy of this page and a copy of the playing cards on page 32.





The object of this game is to be the first player to colour a whole grid. Each player cuts out the playing cards. The 2 players join the cards and shuffle them. There will be 48 cards. Lay 4 cards out in a row, ensuring both players can see them. The rest of the cards go face down in a pile.

Player 1 takes a card from the row of 4 and colours in that amount on one of their hundred grids. Then they put that card at the bottom of the pile and replace it with one from the top of the pile. Player 2 repeats this process.

Players take turns until 1 player has filled in 100 hundredths or 1 whole. (If you go over 100 hundredths or 1 whole, it does not count as a win. You must reach exactly 1 whole.) There are 4 grids so play the best out of 4.




Too nonareains	100	hundredths
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<u> </u>	20%	<u>50</u> 200	0.08	copy
0.35	0.17	0.4	<u>10</u> 200	
<u>6</u> 10	10%	0.19	0.05	
0.6	1 10	<u>15</u> 100	1%	
<u>12</u> 100	2%	0.15	4 200	
<u>20</u> 200	0.8	0.2	5%	

