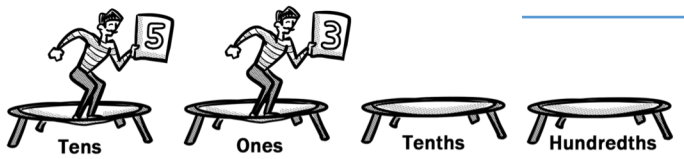
Primary Maths **Fractions, Decimals and Percentages – Years 5 and 6**

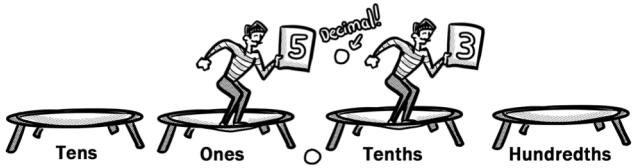
Please can all digits move one place to the right.

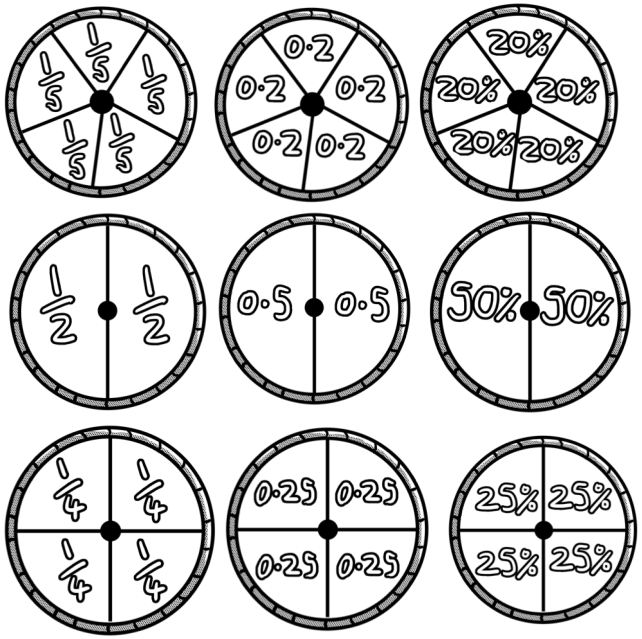
53 ÷ 10 = 5.3



Please can all digits move one place to the right.

53 ÷ 10 = 5.3





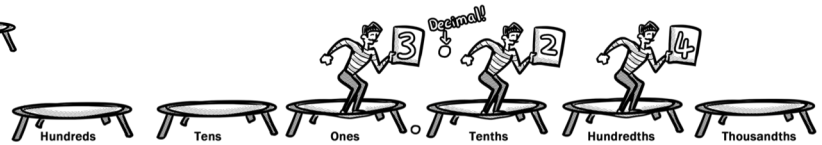
1/5 is less than 2/5

Please can all digits move two places to the right.

324 ÷ 100 = 3.24

Please can all digits move two places to the right.

324 ÷ 100 = 3.24

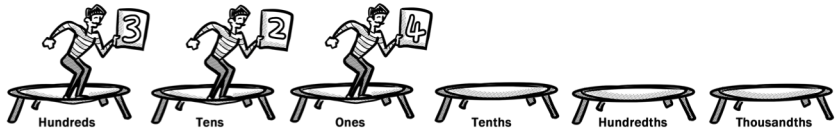


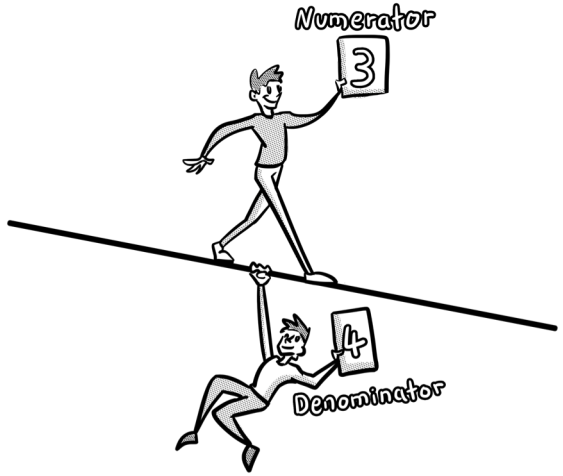
Please can all digits move three places to the right.

324 ÷ 1000 = 0.324

Please can all digits move three places to the right.

324 ÷ 1000 = 0.324





KnowIT

Primary Maths **Fractions, Decimals and Percentages – Years 5 and 6**

Tens	Ones	Tenths	Hundredths

Dividing by 1000

When dividing by **1000**, then you must **move all of the digits three places to the right**.

135 ÷ 100 = 0.135

262 ÷ 1000 = 0.262

81 ÷ 1000 = 0.081

When you **add** and **subtract** fractions with different denominators, you must change the denominators so that they are the same.

e.g. $\frac{3}{10} + \frac{2}{5}$

$\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$

You can **compare fractions with different denominators** using **>** **<** or **=**

$\frac{4}{6} > \frac{3}{8}$ ($\frac{4}{6}$ is greater than $\frac{3}{8}$)

$\frac{2}{5} < \frac{5}{7}$ ($\frac{2}{5}$ is less than $\frac{4}{7}$)

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

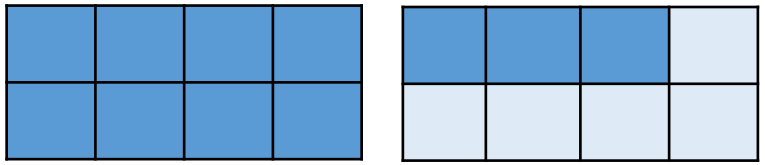
$\frac{18}{24}$ ($\frac{6}{8}$ is the same as $\frac{18}{24}$)

Converting Fractions

You can **convert** (change) from **mixed numbers** (whole numbers and fractions) to **improper fractions** (top-heavy fractions) and vice versa.

$$\frac{11}{8} = 1\frac{3}{8}$$

In the example above, I have $\frac{11}{8}$. As you can see in the diagram, that would be 1 whole, with $\frac{3}{8}$ left over.

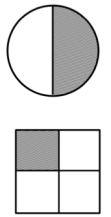


You can **convert** (change) fractions to decimals and to percentages.

$\frac{1}{2}$ = 0.5 = 50%

$\frac{1}{4}$ = 0.25 = 25%

$\frac{1}{5}$ = 0.2 = 20%



$\frac{1}{10} = 0.1 = 10\%$

$\frac{1}{100} = 0.01 = 1\%$

$\frac{1}{1000} = 0.001$