

**Calculator homework sheet: Fractions**

Use the **fraction** and **fraction-decimal** buttons on your calculator to complete the table below:

<b>Fraction</b>	$\frac{1}{2}$	$\frac{1}{4}$		$\frac{1}{10}$			$\frac{4}{5}$		$\frac{13}{20}$	
<b>Decimal</b>			0.75		0.7	0.2		0.125		0.32

If a number is **bigger than 1** then it can be written:

- as a decimal, eg. 2.6
- as an **improper fraction** (the numerator is bigger than the denominator), eg.  $\frac{13}{5}$
- or as a **mixed number**, eg.  $2\frac{3}{5}$

Use the **shift** and **fraction** buttons to convert between these 3 forms.

**Example:**  $3.5 = \frac{7}{2} = 3\frac{1}{2}$

<b>Improper fraction</b>	$\frac{9}{2}$			$\frac{17}{10}$			$\frac{23}{8}$			$\frac{78}{25}$
<b>Decimal</b>		1.75			4.9			3.4375		
<b>Mixed number</b>			$5\frac{1}{4}$			$6\frac{4}{5}$			$4\frac{3}{20}$	

**Extension work**

Some fractions can only be written as a **recurring decimal**, eg.  $\frac{1}{3} = 0.333333... = 0.\dot{3}$

Find the recurring decimal button on your calculator and complete the table below:

<b>Improper fraction</b>	$\frac{1}{9}$		$\frac{25}{9}$	$\frac{2}{3}$		$\frac{1}{6}$		$\frac{1}{11}$	$\frac{4}{11}$	
<b>Decimal</b>		0. $\dot{5}$					4.8 $\dot{3}$			2.4 $\dot{5}$
<b>Mixed number</b>	X	X		X	$5\frac{1}{3}$	X		X	X	

**Calculator homework sheet: Answers**

Use the **fraction** and **fraction-decimal** buttons on your calculator to complete the table below:

<b>Fraction</b>	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{7}{10}$	$\frac{1}{5}$	$\frac{4}{5}$	$\frac{1}{8}$	$\frac{13}{20}$	$\frac{8}{25}$
<b>Decimal</b>	0.5	0.25	0.75	0.1	0.7	0.2	0.8	0.125	0.65	0.32

If a number is **bigger than 1** then it can be written:

- as a decimal, eg. 2.6
- as an **improper fraction** (the numerator is bigger than the denominator), eg. 13/5
- or as a **mixed number**, eg. 23/5

Use the **shift** and **fraction** buttons to convert between these 3 forms.

Example:  $3.5 = \frac{7}{2} = 3\frac{1}{2}$

<b>Improper fraction</b>	$\frac{9}{2}$	$\frac{7}{4}$	$\frac{21}{4}$	$\frac{17}{10}$	$\frac{49}{10}$	$\frac{34}{5}$	$\frac{23}{8}$	$\frac{55}{16}$	$\frac{83}{20}$	$\frac{78}{25}$
<b>Decimal</b>	4.5	1.75	5.25	1.7	4.9	6.8	2.875	3.4375	4.15	3.12
<b>Mixed number</b>	$4\frac{1}{2}$	$1\frac{3}{4}$	$5\frac{1}{4}$	$1\frac{7}{10}$	$4\frac{9}{10}$	$6\frac{4}{5}$	$2\frac{7}{8}$	$3\frac{7}{16}$	$4\frac{3}{20}$	$3\frac{3}{25}$

**Extension work**

Some fractions can only be written as a **recurring decimal**, eg.  $\frac{1}{3} = 0.333333... = 0.\dot{3}$

Find the recurring decimal button on your calculator and complete the table below:

<b>Improper fraction</b>	$\frac{1}{9}$	$\frac{5}{9}$	$\frac{25}{9}$	$\frac{2}{3}$	$\frac{16}{3}$	$\frac{1}{6}$	$\frac{29}{6}$	$\frac{1}{11}$	$\frac{4}{11}$	$\frac{27}{11}$
<b>Decimal</b>	0.1	0.5	2.7	0.6	5.3	0.16	4.83	0.09	0.36	2.45
<b>Mixed number</b>	X	X	$2\frac{7}{9}$	X	$5\frac{1}{3}$	X	$4\frac{5}{6}$	X	X	$2\frac{5}{11}$