

Day 2 Starter

CCXVII

1) What is 10 less than 2?

2) Round 6,429 to the nearest 100

3) How many full bottles of water will the jug hold?



4) Which is longer, 130 seconds or 2 minutes?

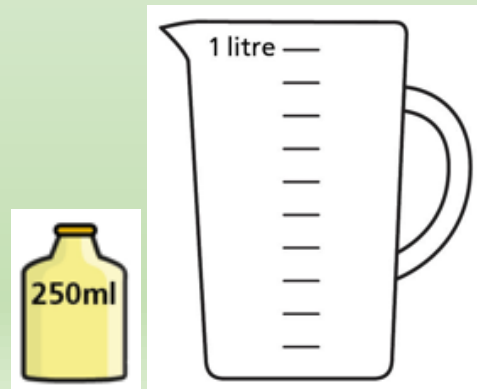
Day 2 Starter

CCXVII

1) What is 10 less than 2? **-8**

2) Round 6,429 to the nearest 100 **6,400**

3) How many full bottles of water will the jug hold? **4**



4) Which is longer, 130 seconds or 2 minutes? **130 seconds**

Conversion you should know...

These are the conversions that you are expected to know mentally.

These are the conversions which you are likely to use in daily life – some without even knowing it!

Fractions	Decimals	Percentages
$\frac{1}{2}$	0.5	50%
$\frac{1}{3}$	0.3	33.3%
$\frac{2}{3}$	0.6	66.6%
$\frac{1}{4}$	0.25	25%
$\frac{3}{4}$	0.75	75%
$\frac{1}{5}$	0.2	20%
$\frac{1}{10}$	0.1	10%
$\frac{1}{20}$	0.05	5%
$\frac{1}{100}$	0.01	1%

How to convert a **DECIMAL** to a **FRACTION**

Quick Tip:

Try to get your **DENOMINATOR** to **100**.

e.g. $4/20 \rightarrow$ times your denominator by 5 to get it to 100. Now repeat for your numerator: $20/100$ ($2/10$) = 0.2

$17/25 =$ multiply 25×4 to get to 100, now repeat for 17 = $68/100 = 0.68$

You can also write the decimal as a fraction like this: $0.48 = 48/100$ (then simplify)

$0.154 = 154/1000$ (then simplify)

Example: Convert 0.75 to a fraction

Step 1: Write down 0.75 divided by 1:

$$\frac{0.75}{1}$$

Step 2: Multiply both top and bottom by **100** (because there are 2 digits after the decimal point so that is $10 \times 10 = 100$):

$$\begin{array}{c} \times 100 \\ \curvearrowright \\ \frac{0.75}{1} = \frac{75}{100} \\ \curvearrowleft \\ \times 100 \end{array}$$

(Do you see how it turns the top number into a whole number?)

Step 3: Simplify the fraction (this took me two steps):

$$\begin{array}{c} \div 5 \quad \div 5 \\ \curvearrowright \quad \curvearrowright \\ \frac{75}{100} = \frac{15}{20} = \frac{3}{4} \\ \curvearrowleft \quad \curvearrowleft \\ \div 5 \quad \div 5 \end{array}$$

$$\text{Answer} = \frac{3}{4}$$



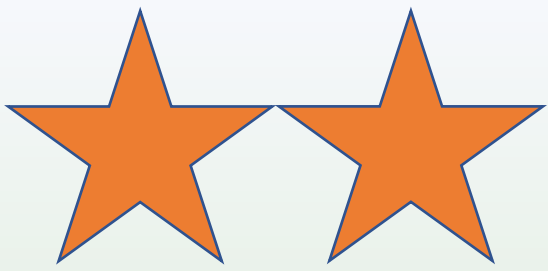
We recommend that you begin by turning the decimal into a decimal fraction (like was shown in yellow on the previous slide)

Top Tip: the final place value column used in the decimal **must** be your denominator. If your decimal goes into the hundredths column, then 100 must be your denominator.

Complete the table by converting the decimals into decimal fractions and also fraction in simplest form. The first one is done for you.

	Decimal		Decimal fraction		Simplest form
1)	0.65	=	$\frac{65}{100}$	=	$\frac{13}{20}$
2)	0.3	=		=	
3)	0.75	=		=	
4)	0.2	=		=	
5)	0.36	=		=	
6)	0.5	=		=	
7)	0.73	=		=	
8)	0.18	=		=	
9)	0.43	=		=	
10)	0.92	=		=	
11)	0.78	=		=	
12)	0.25	=		=	
13)	0.39	=		=	

1)	0.65	=	$\frac{65}{100}$	=	$\frac{13}{20}$
2)	0.3	=	$\frac{3}{10}$	=	$\frac{3}{10}$
3)	0.75	=	$\frac{75}{100}$	=	$\frac{3}{4}$
4)	0.2	=	$\frac{2}{10}$	=	$\frac{1}{5}$
5)	0.36	=	$\frac{36}{100}$	=	$\frac{9}{25}$
6)	0.5	=	$\frac{5}{10}$	=	$\frac{1}{2}$
7)	0.73	=	$\frac{73}{100}$	=	$\frac{73}{100}$
8)	0.18	=	$\frac{18}{100}$	=	$\frac{9}{50}$
9)	0.43	=	$\frac{43}{100}$	=	$\frac{43}{100}$
10)	0.92	=	$\frac{92}{100}$	=	$\frac{23}{25}$
11)	0.78	=	$\frac{78}{100}$	=	$\frac{39}{50}$
12)	0.25	=	$\frac{25}{100}$	=	$\frac{1}{4}$
13)	0.39	=	$\frac{39}{100}$	=	$\frac{39}{100}$



Convert your decimal into a decimal fraction → remember, the last column used in your place value must be your denominator.

e.g. 2.65 (5 is in the hundredths column so therefore 100 must be your denominator)

	Decimal		Decimal fraction		Simplest form
1)	2.65	=	$2 \frac{65}{100}$	=	$2 \frac{13}{20}$
2)	4.3	=		=	
3)	2.75	=		=	
4)	6.2	=		=	
5)	3.36	=		=	
6)	1.5	=		=	
7)	5.73	=		=	
8)	0.28	=		=	
9)	2.45	=		=	
10)	1.96	=		=	
11)	0.56	=		=	
12)	4.25	=		=	
13)	8.39	=		=	

1)	2.65	=	2	$\frac{65}{100}$	=	2	$\frac{13}{20}$
2)	4.3	=	4	$\frac{3}{10}$	=	4	$\frac{3}{10}$
3)	2.75	=	2	$\frac{75}{100}$	=	2	$\frac{3}{4}$
4)	6.2	=	6	$\frac{2}{10}$	=	6	$\frac{1}{5}$
5)	3.36	=	3	$\frac{36}{100}$	=	3	$\frac{9}{25}$
6)	1.5	=	1	$\frac{5}{10}$	=	1	$\frac{1}{2}$
7)	5.73	=	5	$\frac{73}{100}$	=	5	$\frac{73}{100}$
8)	0.28	=		$\frac{28}{100}$	=		$\frac{7}{25}$
9)	2.45	=	2	$\frac{45}{100}$	=	2	$\frac{9}{20}$
10)	1.96	=	1	$\frac{96}{100}$	=	1	$\frac{24}{25}$
11)	0.56	=		$\frac{56}{100}$	=		$\frac{14}{25}$
12)	4.25	=	4	$\frac{25}{100}$	=	4	$\frac{1}{4}$
13)	8.39	=	8	$\frac{39}{100}$	=	8	$\frac{39}{100}$