Help at home guidance: How to crack 20 in 20!

This guidance is designed to help your child improve their maths at home.

The new weekly '20 in 20' tests are designed to keep your child constantly on top of the essential arithmetic skills which are required in maths. They also prepare your child for the first of 3 maths Year 6 SATs papers which asks children to answer approximately 30 questions in 30 minutes.

The methods we use are taken from the Busy Ants Maths calculation policy, which can be found on the school website.

## Formal written method of columnar addition

548 + 387

$$
\begin{array}{r}
548 \\
+\ 387 \\
\hline
935 \\
\hline
\small{1\ 1}
\end{array}
$$

Formal written method of columnar subtraction (decomposition)

631 - 314

$$
\begin{array}{r}
6\ ^2\!\!\not{3}\ ^1\!\!1 \\
-\ 3\ 1\ 4 \\
\hline
3\ 1\ 7 \\
\hline
\end{array}
$$

Formal written method of short multiplication

378 × 4

$$
\begin{array}{r}
3\ 7\ 8 \\
\times\ \ _3\ _3\ 4 \\
\hline
1\ 5\ 1\ 2 \\
\hline
\end{array}
$$

Formal written method of short division

$$4 \overline{)9\ ^12}$$ with quotient $2\ 3$

Rounding

Rounding to the Nearest 10

239
238
237
236
235
234
233
232
231

Round **up** to 240

Round **down** to 230

Rounding to the Nearest 100

7399
7398
...
7351
7350
7349
7348
...
7302
7301

Round **up** to 7400

Round **down** to 7300

Factor pairs

Factor Pairs

2 numbers that you can multiply to get your target number.

Target Number = 36

1, 2, 3, 4, 6, 9, 12, 18, 36
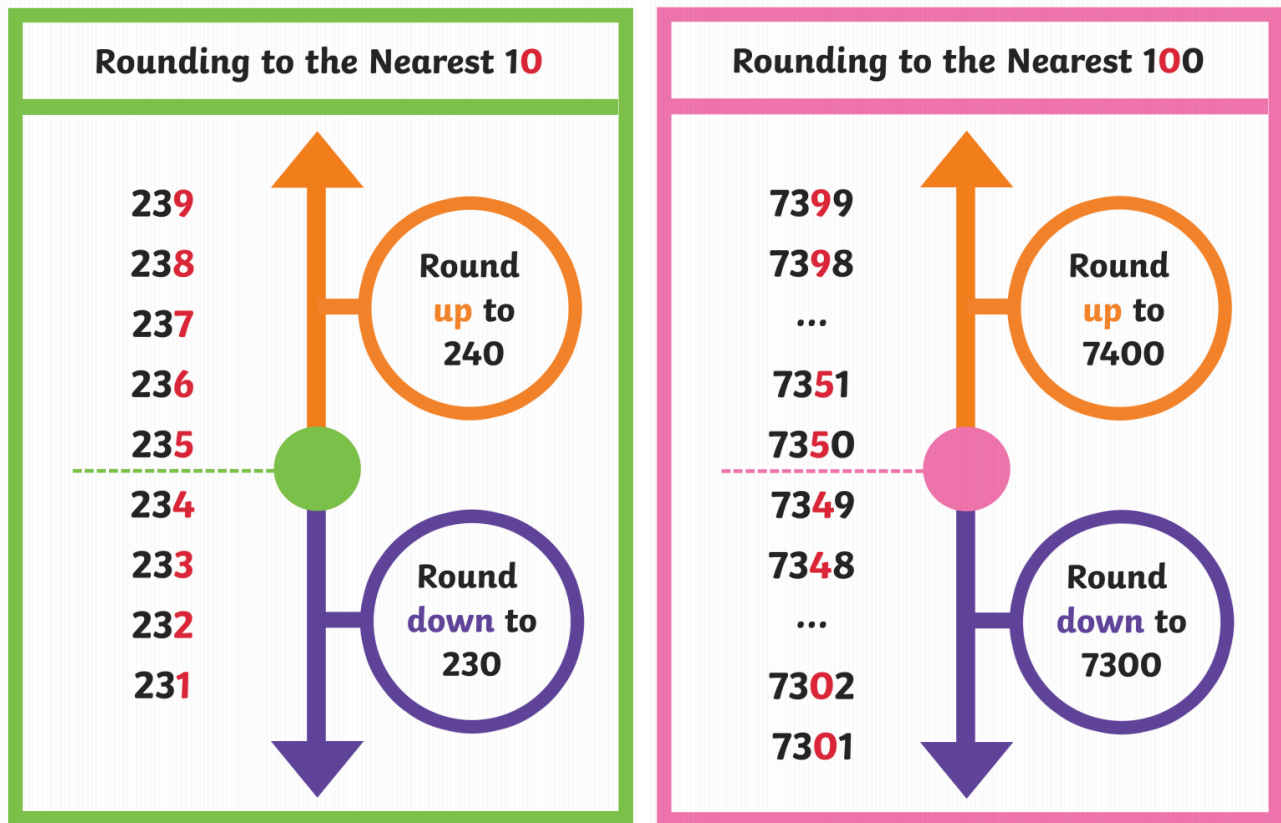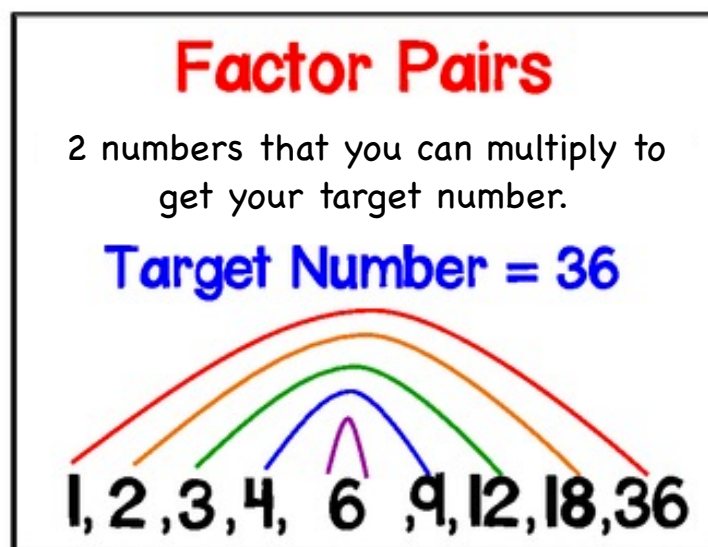
Converting decimals to fractions

⬤	= 1	=	1
◐	= ½	=	0.5
◔	= ⅓	=	0.33
◔	= ¼	=	0.25
◔	= ⅕	=	0.2
◔	= ⅛	=	0.125
◔	= ¹⁄₁₀	=	0.1
◔	= ¹⁄₁₀₀	=	0.01

And finally... don't forget your TIMES TABLES!

They really do underpin everything in mathematics.

"A good mathematician can work them out... a great mathematician knows them!"