



Times Tables

$7 \times 1 = 7$	$7 \times 7 = 49$	$9 \times 1 = 9$	$9 \times 7 = 63$	$11 \times 1 = 11$	$11 \times 7 = 77$	$12 \times 1 = 12$	$12 \times 7 = 84$
$7 \times 2 = 14$	$7 \times 8 = 56$	$9 \times 2 = 18$	$9 \times 8 = 72$	$11 \times 2 = 22$	$11 \times 8 = 88$	$12 \times 2 = 24$	$12 \times 8 = 96$
$7 \times 3 = 21$	$7 \times 9 = 63$	$9 \times 3 = 27$	$9 \times 9 = 81$	$11 \times 3 = 33$	$11 \times 9 = 99$	$12 \times 3 = 36$	$12 \times 9 = 108$
$7 \times 4 = 28$	$7 \times 10 = 70$	$9 \times 4 = 36$	$9 \times 10 = 90$	$11 \times 4 = 44$	$11 \times 10 = 110$	$12 \times 4 = 48$	$12 \times 10 = 120$
$7 \times 5 = 35$	$7 \times 11 = 77$	$9 \times 5 = 45$	$9 \times 11 = 99$	$11 \times 5 = 55$	$11 \times 11 = 121$	$12 \times 5 = 60$	$12 \times 11 = 132$
$7 \times 6 = 42$	$7 \times 12 = 84$	$9 \times 6 = 54$	$9 \times 12 = 108$	$11 \times 6 = 66$	$11 \times 12 = 132$	$12 \times 6 = 72$	$12 \times 12 = 144$

Number Line



Negative Numbers

Positive Numbers

Four Operations

Addition (+)

$$\begin{array}{r} 4873 \\ + 3762 \\ \hline 8635 \\ \hline 11 \end{array}$$

Subtraction (-)

$$\begin{array}{r} 5042 \\ - 1776 \\ \hline 3266 \end{array}$$

Multiplication (x)

$147 \times 4 = 588$

x	100	40	7
4	400	160	28

$400 + 160 + 28 = 588$

Division (÷)

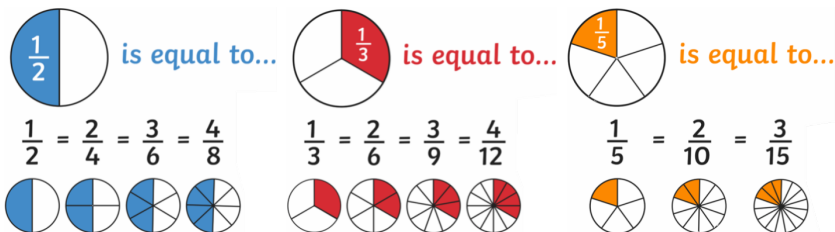
$65 \div 4 = 16r1$

$$4 \overline{) 65} \begin{array}{l} 16r1 \\ \underline{4} \\ 25 \\ \underline{20} \\ 5 \end{array}$$

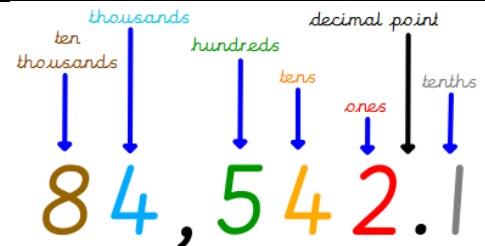
Key Vocabulary - Definitions

- Sum** - the value of two or more numbers when added.
- Product** - the value of two or numbers when multiplied.
- Multiple** - a number that can be divided evenly by a given number.
- Factor** - a number that is multiplied by another number, resulting in a product.
- Estimate** - Having an educated guess (perhaps based on rounding) at what the answer might be.
- Inverse Operation** - to reverse the effect of an operation (i.e. addition and subtraction; multiplication and division).
- Equivalent** - having the same value.

Equivalent Fractions



Place Value



Rounding

Add and Subtract Fractions

Rounding to Nearest 10

239
238
237
236
235
234
233
232
231

Round up to 240

Round down to 230

Remember: The red digit is the one to consider.

Rounding to Nearest 100

7399
7388
...
7351
7350
7349
7348
...
7302
7301

Round up to 7400

Round down to 7300

Remember: The red digit is the one to consider.

Rounding to Nearest 1000

5999
5998
...
5501
5500
5499
5498
...
5002
5001

Round up to 6000

Round down to 5000

Remember: The red digit is the one to consider.

When two fractions have the **same** denominator, you simply need to add or subtract the **numerators**...

Add:

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

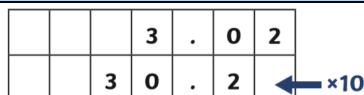
Subtract:

$$\frac{4}{8} - \frac{2}{8} = \frac{2}{8}$$

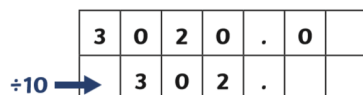
Multiplying and Dividing by 10 and 100

Finding 1000 More or Less

$3.02 \times 10 = 30.2$



$3020 \div 10 = 302$



1000 less than		1000 more than
249	1,249	2,249
2,380	3,380	4,380
5,013	6,013	7,013