

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 (÷)

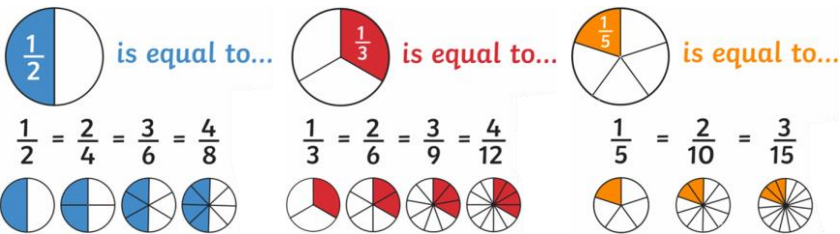
$$65 \div 4 = 16 \text{ r}1$$

$$4 \overline{) 65} \begin{array}{l} 16 \text{ r}1 \\ \underline{4} \\ 25 \\ \underline{24} \\ 1 \end{array}$$

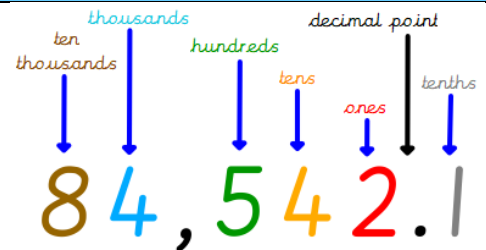
Key Vocabulary - Definitions

- 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

<p>Rounding to Nearest 10</p> <p>239 238 237 236 235 234 233 232 231</p> <p>Round up to 240</p> <p>Round down to 230</p> <p>Remember: The red digit is the one to consider.</p>	<p>Rounding to Nearest 100</p> <p>7399 7388 ... 7351 7350 7349 7348 ... 7302 7301</p> <p>Round up to 7400</p> <p>Round down to 7300</p> <p>Remember: The red digit is the one to consider.</p>	<p>Rounding to Nearest 1000</p> <p>5999 5998 ... 5501 5500 5499 5498 ... 5002 5001</p> <p>Round up to 6000</p> <p>Round down to 5000</p> <p>Remember: The red digit is the one to consider.</p>
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Add and Subtract Fractions

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

Add:

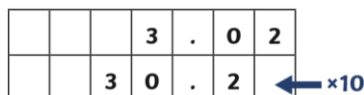
$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

Subtract:

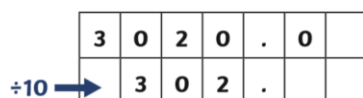
$$\frac{4}{8} - \frac{2}{8} = \frac{2}{8}$$

Multiplying and Dividing by 10 and 100

$$3.02 \times 10 = 30.2$$



$$3020 \div 10 = 302$$



Finding 1000 More or Less

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