

Ashfield Valley Primary School— Year 3—Spring 1—Maths Knowledge Organiser

Place value

256

| | | |
|-------------|-------|-----|
| two hundred | fifty | six |
| | | |
| 200 | 50 | 6 |

Addition and subtraction

A7: Column Addition

$$\begin{array}{r} 687 \\ + 248 \\ \hline 935 \end{array}$$

S11: Column Subtraction

$$\begin{array}{r} 6 \text{ } 11 \text{ } 1 \\ 723 \\ - 356 \\ \hline 367 \end{array}$$

Multiplication and division

M6: Column Multiplication

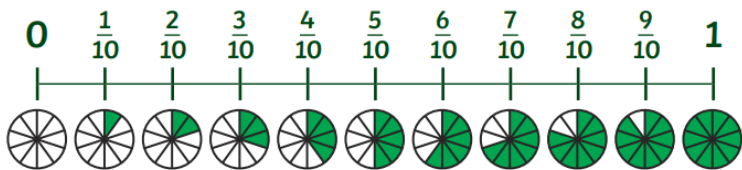
$$\begin{array}{r} 147 \\ \times 4 \\ \hline 588 \end{array}$$

D10: Short Division

$$136 \div 4 = 34$$

$$\begin{array}{r} 34 \\ 4 \overline{)136} \\ \underline{12} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

Fractions



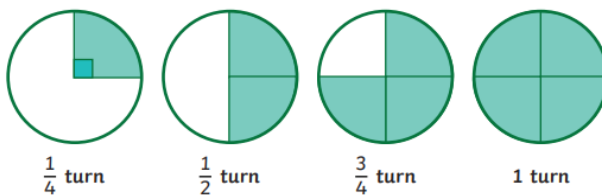
$\frac{3}{8}$

Numerator
How many equal parts of the whole are needed?

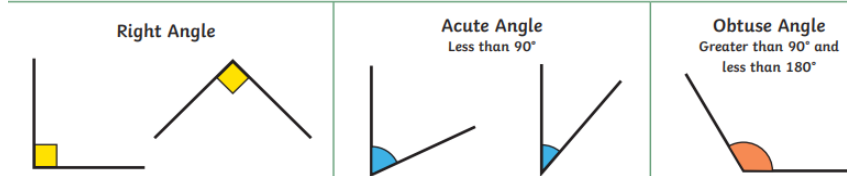
Denominator
How many equal parts are in the whole?

Turns and angles

Angles can be used as a description of a turn.



An angle is created when two straight lines meet at a point or intersect.



Times tables practise

| × | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

Add and subtract fractions

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



$$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$$



Money



Which times tables do you need to learn?
Remember to use TT Rocks Stars to practise your times tables!