

## Tables and Graphs

Distance table

| Theale |  | How far is it from Theale to Newbury? |  |
| :---: | :---: | :---: | :---: |
| 7.5 km | Reading |  |  |
| 11 km | 7.2 km | Purley |  |
| 22 km | 32 km | 33 km | Newbury |

## Timetables

| Reading | $I 0: 10$ | $I I: 20$ |
| :--- | :--- | :---: |
| Theale | $I 0: 35$ | -- |
| Thatcham | $I I: 02$ | $12: 04$ |
| Newbury | $I I: 23$ | $12: 25$ |

What time does the II:20 bus from Reading leave Thatcham? 12:04
How long does it take the first bus to

Rectangles Quadrilaterals - 4 sides

 Time
What is the difference between the temperatures at 3 am and 7 am ? $10-1=9^{\circ} \mathrm{C}$

$$
+1 \mathrm{~h}+13 \text { min }
$$

10:10 11:10 11:23 | $\mathrm{h} \mid 3 \mathrm{~min}$
Transformations
Reflection in a vertical line Reflection in a
horizontal line
Translation 4 right 2 down


| Place <br> Value | $\begin{aligned} & \frac{3}{0} \\ & \stackrel{y}{3} \\ & \stackrel{y}{B} \end{aligned}$ |  |  | $\begin{aligned} & \text { ư } \\ & \stackrel{y}{3} \\ & \text { W} \\ & \stackrel{\rightharpoonup}{0} \\ & \stackrel{\rightharpoonup}{3} \end{aligned}$ | $\begin{aligned} & \frac{3}{0} \\ & \frac{2}{3} \\ & \frac{5}{3} \\ & \text { I } \end{aligned}$ | - | -3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 6 | 9 | 3 | 5 | \| | 7 | 8 |

$6935178=6000000+900000+30000+5000+100+70+8$

## Naming numbers

Group the digits in threes from the right, putting a space or comma between each group. This is where you say million and thousand
6,935,178 Six million, nine hundred and thirty-five thousand, one hundred and seventy-eight
I 256210 One million, two hundred and fifty-six thousand, two hundred and ten


## Mental addition

$247+152$
$=247+100+50+2$
$=347+50+2$
$=397+2$
$=399$

| subtraction |  | subtraction |
| :---: | :---: | :---: |
| 689-227 | take away |  |
| $=689-200-20-7$ | difference | $5^{4} \$^{15} Q^{9}{ }^{1} 1$ |
| $=489-20-7$ | less than minus | $\begin{array}{r}165 \\ -\quad 955 \\ \hline\end{array}$ |
| $=469-7$ | How many more? | 4646 |




Difference between -3 and $-1=2$ The difference between two numbers must be positive

## Times tables <br>            

## Use a factor

 bug to find all the pairs

Prime number: 2 factors (I and itself)
Composite number: more than 2 factors
The number 1: only has I factor, so it is neither prime, nor composite

| Factors of 24 | Factors of 18 | Common <br> factors | Highest common <br> factor |
| :--- | :--- | :--- | :--- |
| $1,2,3,4,6,8,12,24$ | $1,2,3,6,9,18$ | $1,2,3,6$ | 6 |

Multiples: all the products of a number multiplied by integers

| Multiples of 8 | Multiples of 10 | Lowest common <br> multiple |
| :--- | :--- | :--- |
| $0,8,16,24,32,40,48 \ldots$ | $10,20,30,40,48 \ldots$ | 40 |

Prime numbers to 20

| 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |


 Square numbers have an odd number of factors

## Cube numbers




