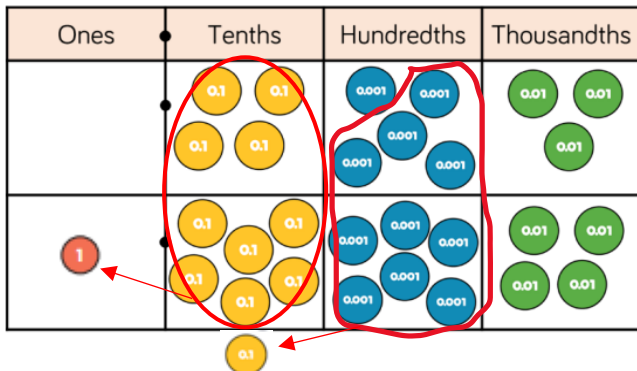
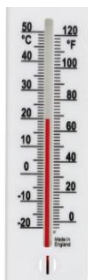


| YEAR 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   | Addition                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|--|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vocabulary: sum, total, parts and whole, plus, add, altogether, more than; addend + addend = sum/total (see previous year groups)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   | Pictorial                                                                                                   | Abstract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Add larger whole numbers.</b></p> <p>6,537,206 + 1,374,023 = 7 911 229</p> <p>No place value counters for larger numbers. Revisit previous years' addition calculation policies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                   | <p><b>Add larger whole numbers</b></p> <p>Number lines from previous year groups are used if needed.</p>    | <p><b>Add larger whole numbers (exchanging at different points)</b></p> <div><div>M</div><div>H</div><div>Th</div><div>TTh</div><div>Th</div><div>H</div><div>T</div><div>O</div></div> <div><div>6</div><div>5</div><div>3</div><div>7</div><div>2</div><div>0</div><div>6</div></div> <div><div>+</div><div>1</div><div>3</div><div>7</div><div>4</div><div>0</div><div>2</div><div>3</div></div> <div><div>7,</div><div>9</div><div>1</div><div>1,</div><div>2</div><div>2</div><div>9</div></div> |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Adding decimals up to 3 decimal places.</b><br/>(including decimals with different numbers of decimal places)</p> <p>0.453 + 0.664 = 1.117</p> <div><table><tr><th>Ones</th><th>Tenths</th><th>Hundredths</th><th>Thousandths</th></tr><tr><td></td><td><div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div></td><td><div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div></td><td><div><div>0.01</div><div>0.01</div><div>0.01</div></div></td></tr><tr><td><div><div>1</div></div></td><td><div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div></td><td><div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div></td><td><div><div>0.01</div><div>0.01</div><div>0.01</div><div>0.01</div></div></td></tr></table></div> |                                                                                   | Ones                                                                                                        | Tenths                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Hundredths | Thousandths |  | <div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div> | <div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div> | <div><div>0.01</div><div>0.01</div><div>0.01</div></div> | <div><div>1</div></div> | <div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div> | <div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div> | <div><div>0.01</div><div>0.01</div><div>0.01</div><div>0.01</div></div> | <p><b>Adding decimals up to 3 decimal places.</b><br/>(including decimals with different numbers of decimal places)</p> <p>See previous addition policies if needed for jottings using a number line.</p> | <p><b>Adding decimals up to 3 decimal places</b><br/>(including decimals with different numbers of decimal places)</p> <div><div>O .</div><div>t</div><div>h</div><div>th</div></div> <div><div>0</div><div>.</div><div>4</div><div>5</div><div>3</div></div> <div><div>+</div><div>0</div><div>.</div><div>6</div><div>6</div><div>4</div></div> <div><div>1</div><div>.</div><div>1</div><div>1</div><div>7</div></div> |
| Ones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tenths                                                                            | Hundredths                                                                                                  | Thousandths                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div>               | <div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div> | <div><div>0.01</div><div>0.01</div><div>0.01</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <div><div>1</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div><div>0.1</div></div> | <div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div><div>0.001</div></div> | <div><div>0.01</div><div>0.01</div><div>0.01</div><div>0.01</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                               |            |             |  |                                                                     |                                                                                                             |                                                          |                         |                                                                                   |                                                                                                             |                                                                         |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |

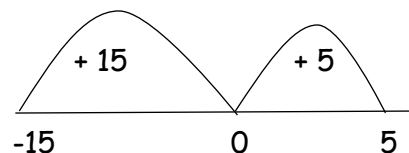


**Adding negative numbers**

In real life contexts

**Adding negative numbers**

$$-15 + 20 = 5$$



(could go up in 1s first and may show vertically)

**Adding negative numbers**

Develops into a mental method - no written method.

**Mental****Counting on:**

$$6.46 + 2.03$$

(partition 2.03 then +2 and +0.03)

**Adjusting:**

$$34\,256 + 14\,999 \text{ (add 15\,000 and subtract 1)}$$

$$6.73 + 0.99 \text{ (add 1 and subtract 0.01)}$$

**Using known facts and place value:**

$$0.64 + 0.36$$

$$64 + 36 = 100 \text{ so } 0.64 + 0.36 = 1$$

**Partitioning:****Adding a power/multiple of 10**

$$163\,453 + 20,000$$

$$275\,321 + 1,000$$

(children recognise which column will change)

**No exchanging**

$$345\,252 + 223\,516$$

$$3.421 + 2.357$$

**Exchanging**

$$3.4 + 2.77$$

$$3 + 2 = 5$$

$$0.4 + 0.7 = 1.1$$

$$5 + 1.1 + 0.07 = 6.17$$