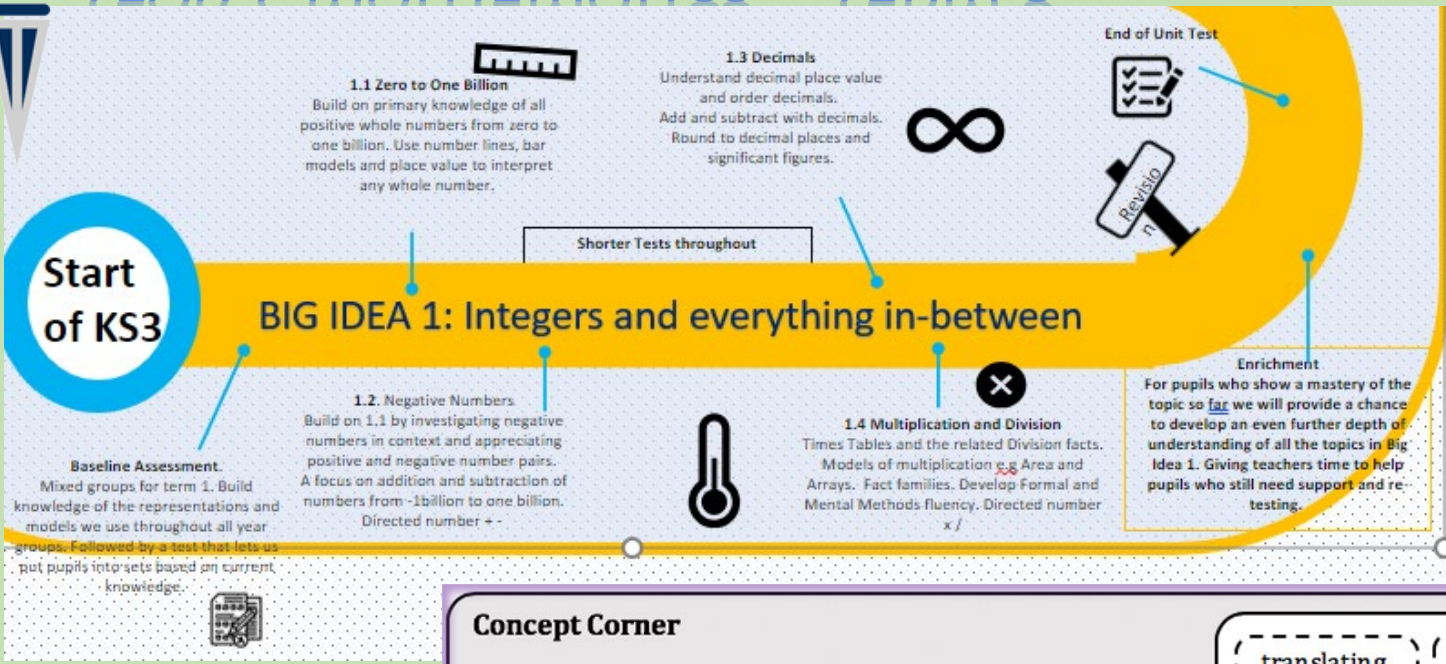


# YEAR 7 MATHEMATICS – TERM 3



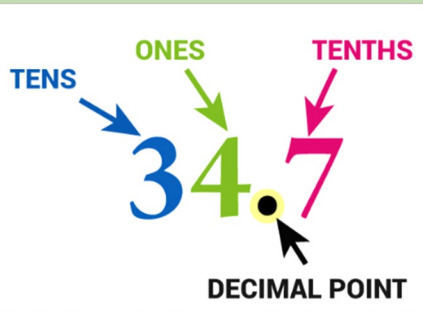
## Multiplying

+ve	x	+ve	=	+ve
-ve	x	-ve	=	+ve
+ve	x	-ve	=	-ve
-ve	x	+ve	=	-ve

## Dividing

+ve	÷	+ve	=	+ve
-ve	÷	-ve	=	+ve
+ve	÷	-ve	=	-ve
-ve	÷	+ve	=	-ve

- Keywords**
- Add
  - Subtract
  - Sum
  - Difference
  - Negative
  - Context
  - Arithmetic
  - Operation
  - Inverse
  - Commutative
  - Evaluate
  - Equals
  - Multiply
  - Divide
  - Written
  - Mental
  - Fluency
  - Decimal
  - Place Value
  - Order
  - Round
  - Significant
  - Figure



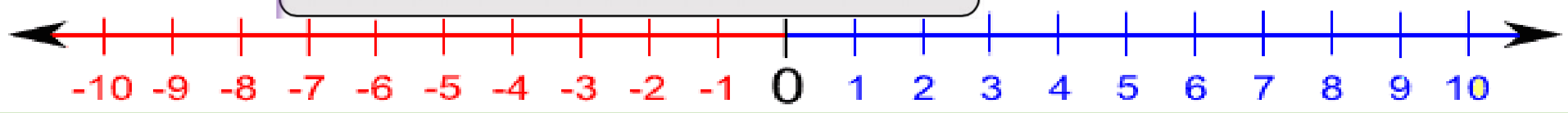
### Concept Corner

We can think of addition as \_\_\_\_\_ a point on the number line.

Here we translated a point that started at \_\_\_\_ . It moved five spaces to the right so it finished at \_\_\_\_ .

This number line shows us that  $(-3) + \underline{\quad} = \underline{\quad}$  .

translating (3)  
 (-3) (5) fixing  
 (2) (2) turning



Question 1: Work out the answers to each of the following

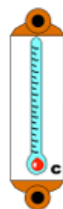
- |              |              |                |                |
|--------------|--------------|----------------|----------------|
| (a) $2 - 3$  | (b) $3 - 5$  | (c) $4 - 9$    | (d) $1 - 5$    |
| (e) $5 - 7$  | (f) $6 - 7$  | (g) $8 - 11$   | (h) $2 - 10$   |
| (i) $-2 + 4$ | (j) $-3 + 9$ | (k) $-7 + 10$  | (l) $-6 + 1$   |
| (m) $-5 + 8$ | (n) $-9 + 7$ | (o) $-20 + 11$ | (p) $-12 + 18$ |
| (q) $-3 - 2$ | (r) $-4 - 1$ | (s) $-6 - 3$   | (t) $-1 - 5$   |
| (u) $-7 - 3$ | (v) $-8 - 5$ | (w) $-9 - 12$  | (x) $-15 - 13$ |

Question 2: Work out the answers to each of the following

- |                    |                   |                   |                     |
|--------------------|-------------------|-------------------|---------------------|
| (a) $3 + 5 - 4$    | (b) $2 + 1 - 6$   | (c) $5 - 8 - 1$   | (d) $7 - 10 + 1$    |
| (e) $8 + 3 - 15$   | (f) $5 - 6 - 4$   | (g) $1 - 7 - 4$   | (h) $-3 + 6 + 1$    |
| (i) $-8 + 2 + 3$   | (j) $-10 + 4 - 6$ | (k) $-9 - 3 - 1$  | (l) $-2 - 7 + 4$    |
| (m) $-20 + 11 - 6$ | (n) $-5 + 14 - 8$ | (o) $-13 - 4 + 6$ | (p) $-30 - 80 + 40$ |

### Apply

- Question 1: At midnight, the temperature in Belfast was  $-2^{\circ}\text{C}$   
At 9am, the temperature was  $5^{\circ}\text{C}$   
  
By how many degrees did the temperature rise?



- Question 2: Mr Jones has  $-\text{£}50$  in his bank account.  
If he pay  $\text{£}70$  into the bank, how much will he now have in his account?

Question 1: Work out the answers to the following additions

- |                       |                                 |                  |                       |
|-----------------------|---------------------------------|------------------|-----------------------|
| (a) $4.5 + 2.3$       | (b) $8.4 + 1.7$                 | (c) $0.7 + 0.5$  | (d) $2.8 + 10.3$      |
| (e) $13.4 + 28.9$     | (f) $206.2 + 72.8$              | (g) $6.4 + 15.9$ | (h) $0.5 + 0.8 + 0.1$ |
| (i) $9.7 + 1.4 + 1.3$ | (j) $16.8 + 3.9 + 102.2 + 87.4$ |                  |                       |

Question 2: Work out the answers to the following subtractions

- |                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| (a) $7.7 - 1.5$   | (b) $8.5 - 4.1$   | (c) $19.7 - 18.6$ | (d) $26.2 - 5.2$  |
| (e) $54.5 - 23.1$ | (f) $80.4 - 10.3$ | (g) $16.6 - 9.2$  | (h) $85.7 - 50.4$ |
| (i) $7.3 - 4$     | (j) $8.6 - 2$     | (k) $24.9 - 6$    | (l) $15.1 - 9$    |
| (m) $7 - 1.3$     | (n) $9 - 3.6$     | (o) $20 - 4.4$    | (p) $32 - 8.7$    |

### Apply

- Question 1: Paul buys a book that costs  $\text{£}6.89$  and pays with a  $\text{£}10$  note.  
How much change should Paul get?



- Question 2: Jennifer has  $1.2\text{kg}$  of flour.  
She uses  $0.75\text{kg}$  of the flour to bake a cake.  
How much flour does she have left?



Use number lines to support your work if needed

