

# Working with Whole numbers

LO 1: To be able to identify a digit's value by its place value.

LO 2: To be able to give examples of negative numbers in practical context.

LO: To be able to work with whole numbers.

1) Zone

2) Place value of whole numbers.

3) Size of negative numbers

5) Follow up work.

Blue Zone



Going slow

E.g. sad, sick, tired,  
bored

Green Zone



Good to go

E.g. happy, calm,  
focused, ok

Yellow Zone



Caution

Starting to lose control

E.g. worried, excited,  
annoyed

Red Zone



Stop!

Out of control

E.g. angry, terrified,  
elated

# THE PLACE VALUE OF NUMBERS

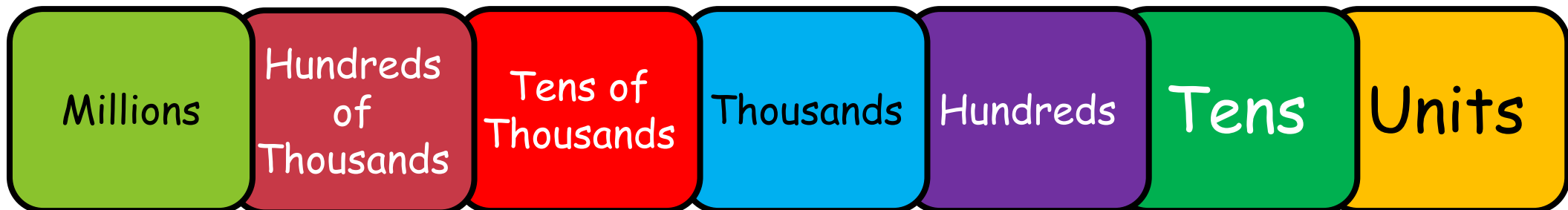
All numbers are made up of digits

64

How many digits does 40,987 have?  
(count them)

Every number is made up of the numbers 0-9  
But where the numbers are positioned gives them a  
different value!

A quick way to work out the value of a digit is to work  
out which place value it has!  
TOP TIP - Start with the UNITS and work back!



Tens of  
Thousands

Thousands

Hundreds

Tens

Units

6

7

What column is the 6 in?

What column is the 7 in?

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

4

0

7

What column is the 4 in?

What column is the 0 in?

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

2

9

3

0

1

What column is the 2 in?

What column is the 1 in?



Tens of  
Thousands

Thousands

Hundreds

Tens

Units

3

6

7

In this number the 7 is in the Units column.  
This means that it represents 7.

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

3

6

7

In this number the 6 is in the TENS column.  
This means that it represents 60.

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

3

6

7

In this number the 3 is in the HUNDREDS  
column.

This means that it represents 300.

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

8

3

6

7

8000

Tens of  
Thousands

Thousands

Hundreds

Tens

Units

2

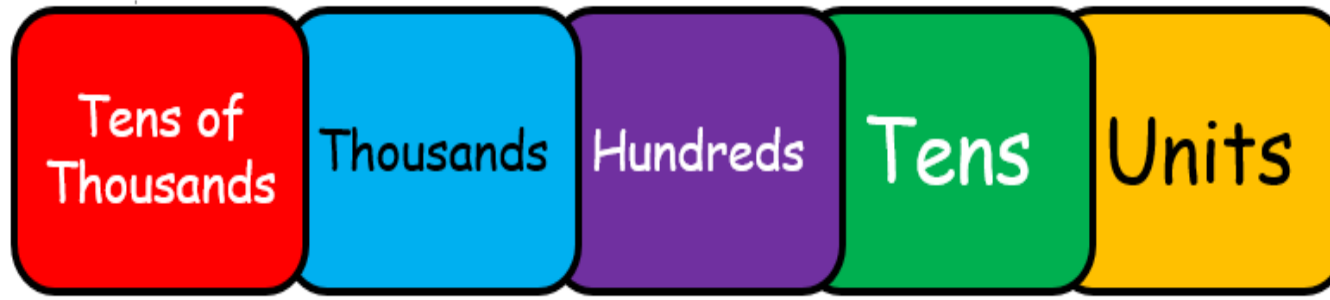
8

3

6

7

20,000



5605

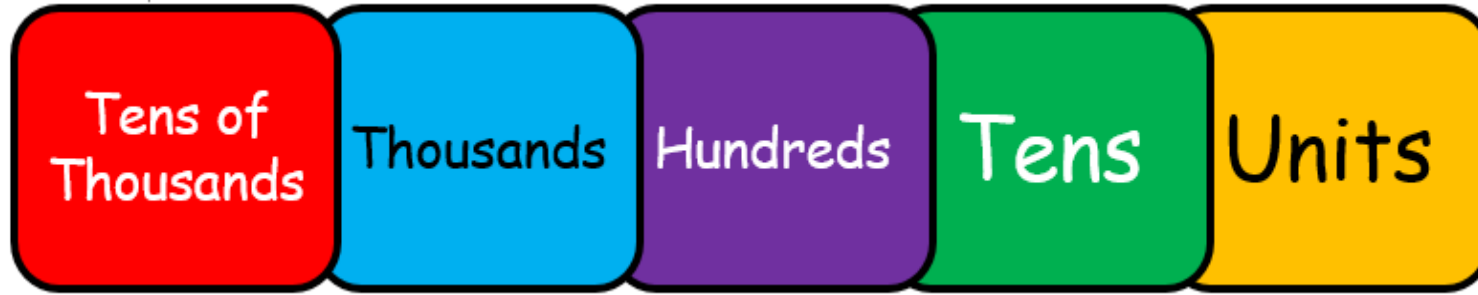
The value of the underlined digit is;

600

9317

The value of the underlined digit is;

300

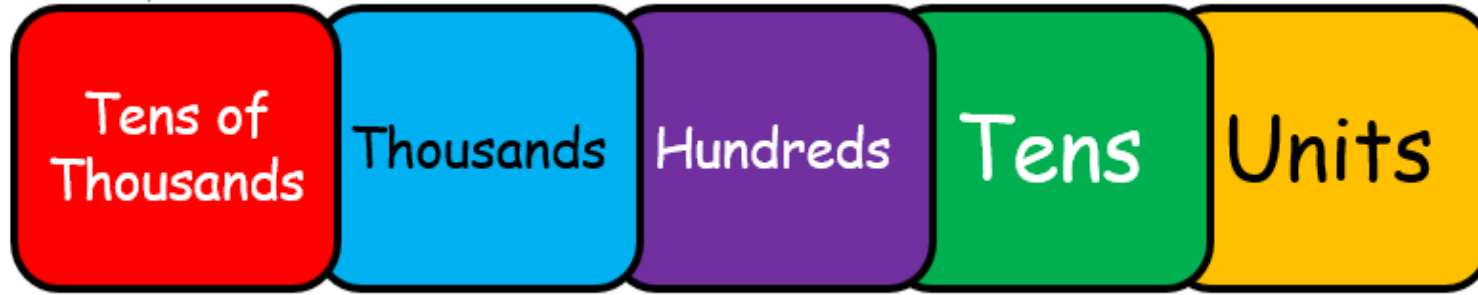


43809

The value of the underlined digit is;

9

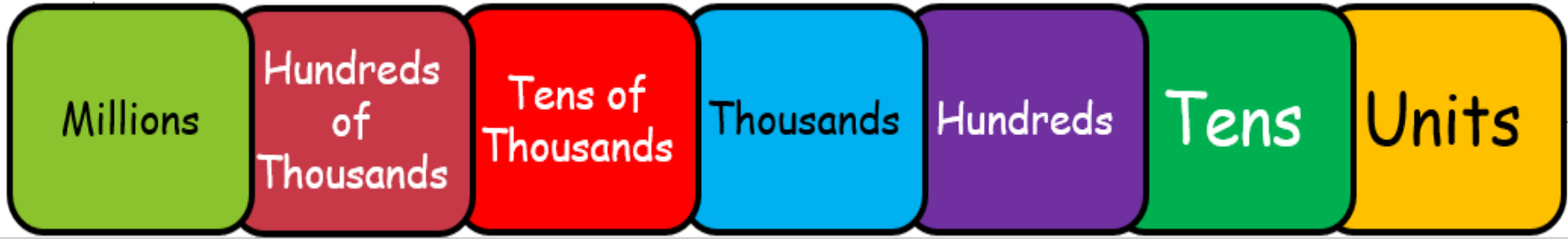




73542

The value of the underlined digit is;

2



6 2 8 5 1 9 6

The value of the underlined digit is;

2000000

45

The value of the underlined digit is;

40

254,789

The value of the underlined digit is;

50,000

1,243,567

The value of the underlined digit is;

1,000,000

LO 2: To be able to give examples of negative numbers in practical context.

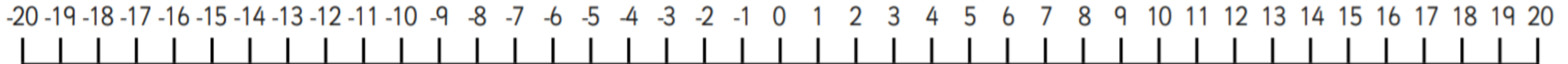
Which is colder?

$12^{\circ}\text{C}$  OR  $45^{\circ}\text{C}$

LO 3: To be able to give examples of negative numbers in practical context.

# Which is colder?

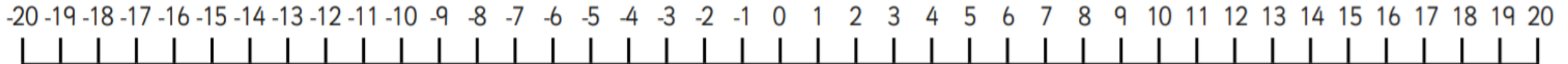
$-12^{\circ}\text{C}$  OR  $3^{\circ}\text{C}$



LO 3: To be able to give examples of negative numbers in practical context.

# Which is colder?

$-9^{\circ}\text{C}$  OR  $6^{\circ}\text{C}$

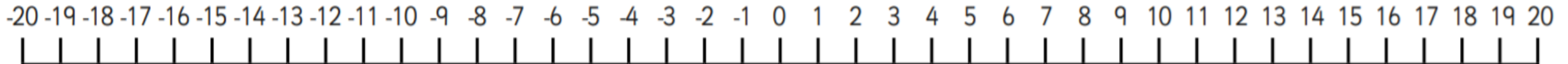




LO 3: To be able to give examples of negative numbers in practical context.

# Which is warmer?

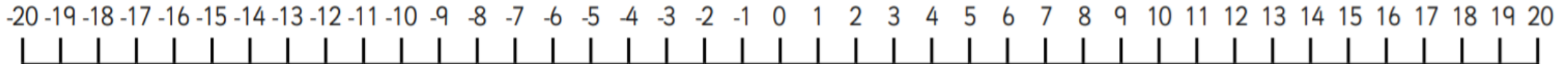
$-4^{\circ}\text{C}$  OR  $7^{\circ}\text{C}$



LO 3: To be able to give examples of negative numbers in practical context.

# Which is warmer?

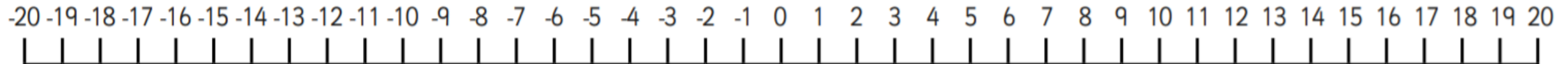
$-16^{\circ}\text{C}$  OR  $3^{\circ}\text{C}$



LO 3: To be able to give examples of negative numbers in practical context.

Would you rather it was..

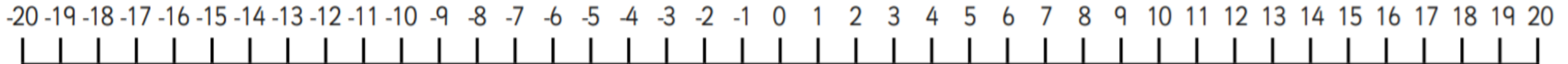
$-3^{\circ}\text{C}$  OR  $19^{\circ}\text{C}$  ?



LO 3: To be able to give examples of negative numbers in practical context.

Would you rather it was..

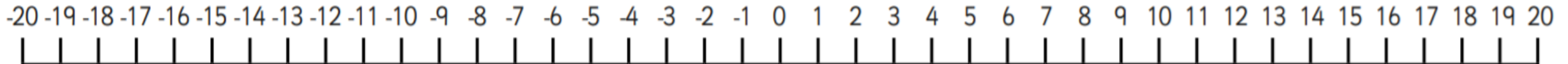
$-13^{\circ}\text{C}$  OR  $9^{\circ}\text{C}$  ?

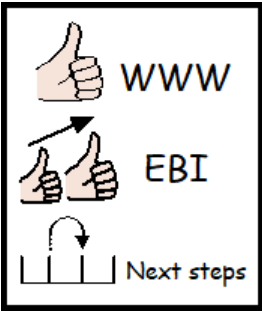


LO 3: To be able to give examples of negative numbers in practical context.

# Which is colder?

-12°C OR -23°C





WWW

LO: To be able to round to the nearest pound.

EBI

Next steps

WWW

EBI

Blue Zone



Going slow

E.g. sad, sick, tired,  
bored

Green Zone



Good to go

E.g. happy, calm,  
focused, ok

Yellow Zone



Caution

Starting to lose control

E.g. worried, excited,  
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Stop!

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E.g. angry, terrified,  
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LO: To be able to round sums of money.

Follow up work

- 1) Sheet 1 - Place Value table
- 2) Sheet 2 - Place Value questions
- 3) Sheet 3 - Negative number questions.

For ALL worksheets you can either print out and write your answers on, or write your answers on paper.

Please take pictures of your work and email to [jo.gould@grangepark.kent.sch.uk](mailto:jo.gould@grangepark.kent.sch.uk)