CHAPTER

2

Introducing Negative Numbers

Worksheet A

Read and Write Numbers Less Than 0

Level 1 Level 2   Level 3

If you are not sure, you can refer to Student's Book page 25.
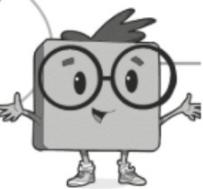
1 Complete the table.

a

In words	In figures
negative twenty-six	−26
negative sixty-one	−61
negative one hundred and two	−102

b What does the digit 6 mean in −26 and −61?

The 6 in −26 means negative 6 ones. The 6 in −61 means negative 6 tens.

2 Eddy is at the first basement of a building.

Write where he is in figures and in words.

In figures: _____ −1 _____   In words: negative one

3 a Write the missing numbers on the number line.

| −8 | −6 | 8 | 2 | 4 | −4 | 6 | −2 |

−10 ... 0 ... 10

−8 −6 −4 −2   2 4 6 8
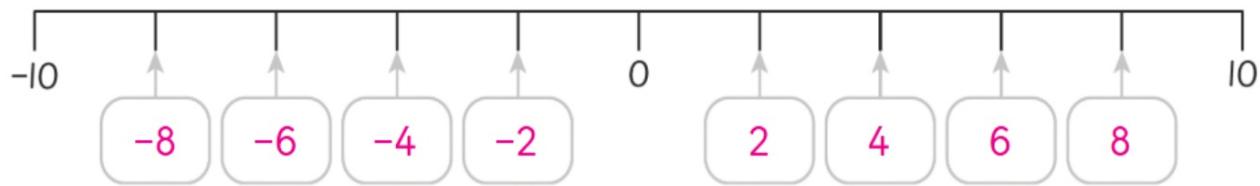
b What do you notice about the numbers? How are they organised?

They increase by 2s and are even. They are organised as positive and negative numbers, with 0 in the middle. On the number line, the numbers are mirror images but with the negative sign to indicate negative numbers.

Level 2

4 Represent these numbers on the number line.

| 230 | 0 | 730 | 545 | −220 | −770 | −480 |

−1000 ←|————|————|————|————|————|————|————|→ 1000

−770 −480 −220 0 230 545 730
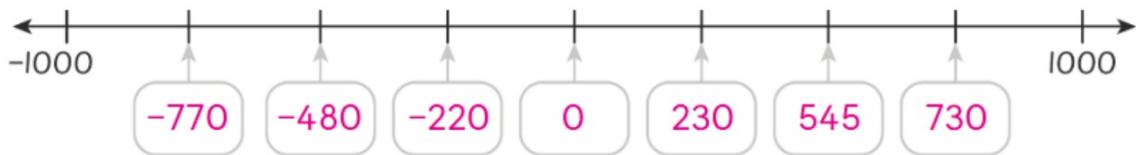
How did you do it? Explain.

O is in the middle of 1000 and −1000, so it is halfway. For the remaining numbers, I estimated by thinking about how far they would be from 0.

5 Look at the clues to form a number.

> I am a 3-digit number that is less than 0.

> The digit in my hundreds place is an even number that is less than 4.

> I have 3 more tens than hundreds.

> My ones digit is odd.

a What number could it be? Answers vary. For example: −251

b Is there more than one answer? Explain your answer.
Answers vary. For example: Yes. The other possible ones digit that
are odd besides the digit I are 3, 5, 7, and 9.

6 The top surface of the sea is 0 m.

Ron, Caz, Ralph and Izzy did some research at the library to find out some of the deepest places in the world.

The deepest river in the world is the Congo River in Africa.
It is about 220 m deep.

Ron

The deepest lake in the world is Lake Baikal in Russia.
It is about 1 640 m deep.

Caz

The deepest ocean in the world is the Pacific Ocean.
It is about 11 022 m deep.
Mount Everest is about 8 849 m tall.
I think the Pacific Ocean is so deep, it could cover Mount Everest!

Ralph

The Mariana Trench on the Pacific Ocean is even deeper!
It is about 11 034 m deep.
I guess we could put Mount Everest in it!

Izzy

How do you write and say how deep these places are if they are all below the level of the sea? Do you agree with Ralph and Izzy's conjectures?

The depth of the Congo River is negative two hundred and twenty metres. The depth of Lake Baikal is negative one thousand, six hundred and forty metres. The depth of the Pacific Ocean is negative eleven thousand and twenty-two metres. The depth of the Mariana Trench is negative eleven thousand and thirty-four metres. Ralph and Izzy's conjectures are right because 11 022 and 11 034 are further than 8 849.