Worksheet B

Activity Book p.36

Tests of Divisibility

Level 1 Level 2 Level 3

If you are not sure, you can refer to Student's Book pages 43 and 44.

1 Circle all the numbers that are divisible by 2.
Draw a square over all the numbers that are divisible by 5.
Draw a triangle over all the numbers that are divisible 10.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130

Activity Book p.36

a Which numbers are divisible by 2, 5 and 10? 110, 120, 130

b Is 151 divisible by 2, 5 or 10? Explain how you know.

Answers vary. For example: 151 is not divisible by 2, 5, or 10. The ones digit is not even, so it is not divisible by 2. The ones digit is not 5 or 0, so it is not divisible by 5. The ones digit is not 0, so it is not divisible by 10.

Activity Book p.36

2 Caz and Ron want to divide their game cards into equal groups.
Write the numbers of equal groups they can divide their cards into.

Answer vary. For example:

	Number of game cards	Divisible by
Caz	75	1, 3, 5, 15, 25, 75
Ron	100	1, 2, 4, 5, 10, 20, 25, 50, 100

Which numbers are 75 and 100 both divisible by? 1, 5 and 25

Activity Book p.37

Level 1 **Level 2** Level 3

3 Look at the numbers.

a Which numbers have a factor of 25? 600, 150, 75, 225, 3250

b Which numbers are divisible by both 10 and 50? 600, 150, 3250

c Which numbers are divisible by 2 but not 10? 62, 208, 524

Activity Book p.37

4 A 3-digit number is divisible by 5 but not 10.

a Is it also divisible by 2? Explain.

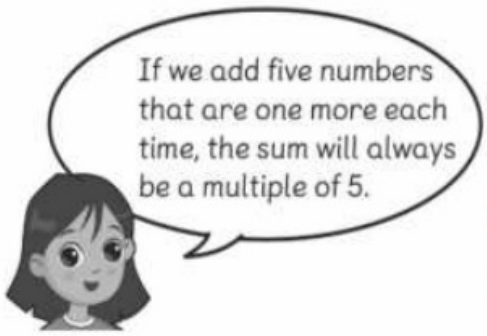
No, because its ones digit will not be even.

b Is it also divisible by 25? Give an example.

Answers vary. For example: The number can only be divisible by 25 if the tens digit is 2 or 7. An example will be 325.

Activity Book p.37

5 a



Sha

Do you agree with Sha's conjecture?
Give an example.

Yes. Answers vary. For example:

1 + 2 + 3 + 4 + 5 = 15

The sum is 15. 15 is a multiple of 5.