

EXTRA TASK SHEET

CHAPTER 1 - WORKING WITH WHOLE NUMBERS



6

FACTOR INVESTIGATION

- a The sum of the digits in 42 is 6 and 6 is a factor of 42. How many 2-digit numbers can you find like this?

Investigate

Find some 3-digit numbers where the sum of the digits is a factor of the number.

- b Marty said that 84 is the only 2-digit number with exactly 12 factors.

Investigate

Are there any other 2-digit numbers with exactly 12 factors?

- c Marty discovered that the sum of the digits of 84 is 12 *and* 84 has exactly 12 factors.

Investigate

Are there any other 2-digit numbers like this?

Score

23 numbers	Excellent
17-22 numbers	Very good
10-16 numbers	Good
less than 16 numbers	Keep trying

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