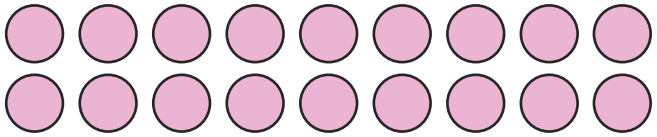
Factors

1)

a) Complete the sentence to match the array.



This array shows that _____ and _____ are factors of 18.

b) Draw two other arrays that can be made with 18 counters and list the factors they represent.

2)

a) Sort these numbers into the correct columns. Remember that they might be factors of more than one number.

2, 5, 8, 12, 4, 10, 9, 3

Factors of 12	Factors of 40	Factors of 36	Factors of 24

b) Identify the missing factors for each number and add them to the table.

3) Complete the calculations.

a) 2 × _____ = 6 so 5 × 6 = 5 × 2 × _____

b) _____ × 8 = 32

c) _____ × 8 = 320

d) 3200 = 40 × _____

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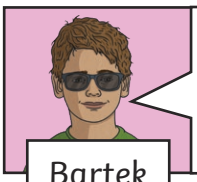
Factors

1) Bartek is identifying factors of 36. Explain the mistake he has made.



Bartek

20 is a factor of 36.

2) Is Elena's statement always, sometimes or never true? Explain your answer.

Elena

1 is a factor of every product.

3) Use your understanding of factors to explain which of these you think is the odd one out. Explain your reasoning.

40	275	105	57

4) Is each statement true or false? Explain your answers.

A Factors come in pairs so all numbers have an even number of factors.

B 48 has more factors than any other number below 100.

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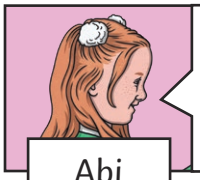
Factors

1) How old could Elias's sister be? Find all possibilities.

Elias

This year, my sister's age is a factor of 36. Next year, her age will be a factor of 30.

2) Solve this problem.



Abi

I am thinking of three consecutive numbers less than 100. The first number has 5 as one of its factors, the second number has 1 as a factor and the third number has 2 as one of its factors.

a) What could the three consecutive numbers be? Find as many possibilities as you can.

b) Can you explain how you solved this problem?

3) Identify the missing factors from the grid that make the products in the shaded squares.

Calculations can be completed horizontally and vertically.

2		8
		30
	8	56
84	160	

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