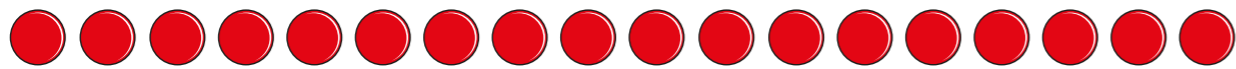
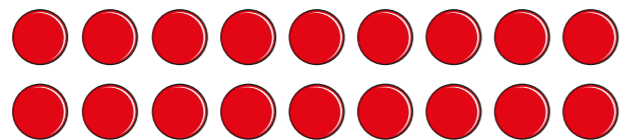




**1** Kim is using counters to find factors of 18  
She arranges the counters in an array with one row.



Then she arranges the counters in an array with two rows.



**a)** Kim's arrays show four numbers that are factors of 18  
Which numbers are they?

**b)** What are the two other factors of 18?

**c)** Use counters to find the factors of 27  
List the factors of 27  
\_\_\_\_\_

**d)** List the common factors of 18 and 27  
\_\_\_\_\_

Why are these numbers common factors?

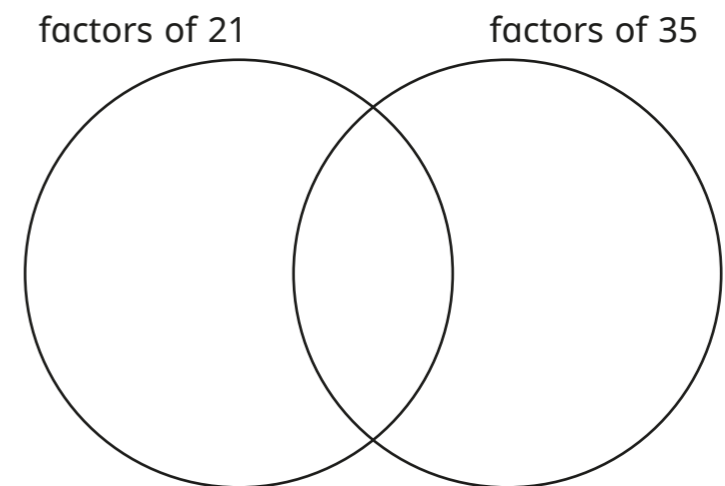


**2** Complete the sentences.  
**a)** The factors of 24 are \_\_\_\_\_  
The factors of 36 are \_\_\_\_\_  
The common factors of 24 and 36 are \_\_\_\_\_

**b)** The factors of 30 are \_\_\_\_\_  
The factors of 45 are \_\_\_\_\_  
The common factors of 30 and 45 are \_\_\_\_\_

**3** **a)** Write the numbers in the sorting diagram.

**1      3      5      7      21      35**



**b)** What are the common factors of 21 and 35?  
\_\_\_\_\_

**c)** How does the sorting diagram help you to list the common factors?





4 List the common factors of each pair of numbers.

a)

15	20
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b)

9	10
---	----

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5 Circle the pairs of numbers that have only one common factor.

2 and 6

3 and 8

15 and 12

9 and 11

49 and 21

15 and 22

What do you notice?



6



All the factors of 36 are common factors of 36 and 72

Do you agree with Mo? \_\_\_\_\_

Explain your reasoning.

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Can you think of any other numbers for which this would happen?



7 a) List the factors of 60 in order from smallest to greatest.

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b) List the factors of 84 in order from smallest to greatest.

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c) What is the greatest common factor of 60 and 84?

8 Whitney bakes 24 cakes.

Dexter bakes 30 cakes.

Boxes can hold 2, 3, 4, 5, 6 or 10 cakes.

Whitney and Dexter want to share their cakes equally into boxes.



a) Which boxes could Whitney use?

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b) Which boxes could Dexter use?

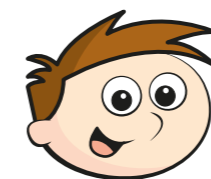
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c) Which boxes could they both use?

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Compare answers with a partner.

9



I am thinking of two numbers between 70 and 80  
The common factors are 1, 2, 4 and 8

What are the two numbers that Teddy is thinking of?

 and 
