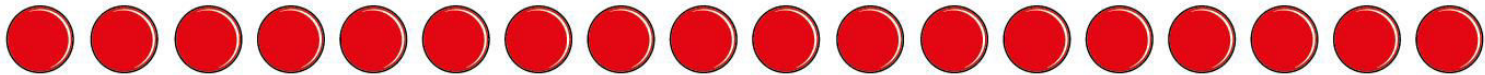


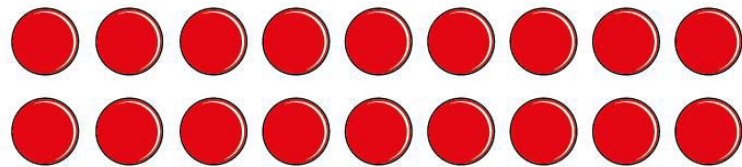
# Common factors

- 1 Kim is using counters to find factors of 18

She arranges the counters in one row.



Then she arranges the counters in two rows.



1

- a) Kim's array shows four numbers that are factors of 18

Which numbers are they?

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

--	--

- c) Use counters to find the factors of 27

List the factors of 27

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- 1 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 \_\_\_\_\_

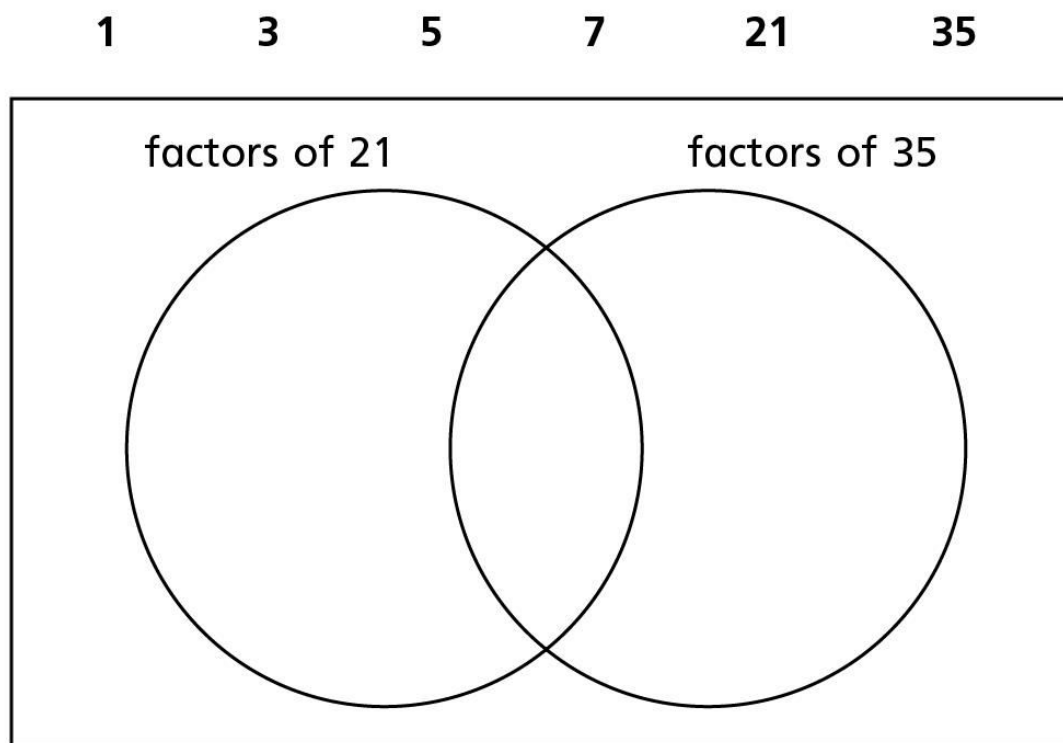
The common factors of 24 and 36 are \_\_\_\_\_

b) The factors of 30 are \_\_\_\_\_

The factors of 45 are \_\_\_\_\_

The common factors of 30 and 45 are \_\_\_\_\_

- 3 a) Write the numbers on the diagram.



- b) What are the common factors of 21 and 35?
-



- 3 c) How does the Venn 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

---

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

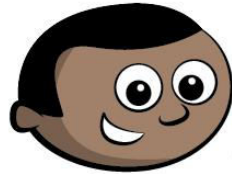
15 and 22

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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Why do you think this happens?





7

a) List the factors of 60 in order from lowest to highest.

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

---

c) What is the highest 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 