## **Common factors**

Make as many different arrays as possible, using all the cubes or counters.

Use your arrays to help you list the factors of 18

The factors of 18 are \_\_\_\_\_

**b)** Use 24 counters or cubes.

Make as many different arrays as possible, using all the cubes or counters.

Use your arrays to help you list the factors of 24

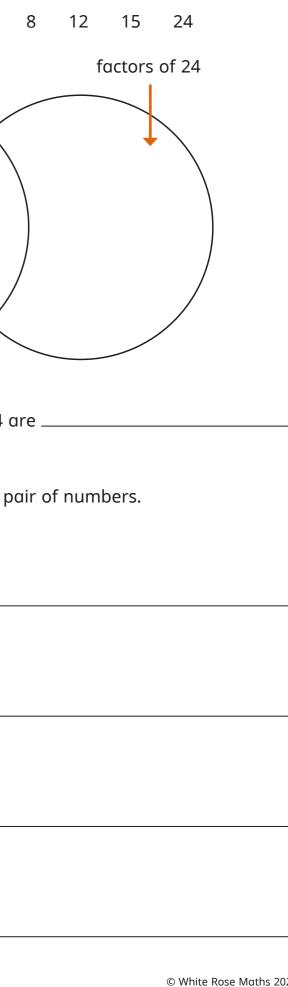
The factors of 24 are \_\_\_\_\_

c) What are the common factors of 18 and 24?

**d)** What are the common factors of 16 and 32?

Write the numbers in the sorting diagram. 2 1 2 3 4 5 6 8 12 15 24 factors of 15 Complete the sentence. The common factors of 15 and 24 are \_\_\_\_\_ Find the common factors of each pair of numbers. 3 **a)** 12 and 20 **b)** 16 and 25 **c)** 20 and 50 **d)** 20 and 60

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## **a)** Complete the table.

| Factor pairs of 75 | Factor pairs of 100       |
|--------------------|---------------------------|
| 1 ×                |                           |
|                    |                           |
|                    |                           |
|                    |                           |
|                    |                           |
|                    | Factor pairs of 75<br>1 × |

b) What are the common factors of 50, 75 and 100?

I am thinking of a 2-digit number. My number has Annie a factor of 7 in common with Annie's number. Dexter

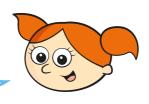
What number is Annie thinking of?

List three common factors of 360 and 180 that are greater than 50

Alex is making party bags. She has 35 sweets and 25 balloons.

All the sweets and balloons need to be shared equally, so that each bag has the same number of sweets and balloons.

> I can put 5 sweets and 5 balloons in each bag because 5 is a common factor of 35 and 25



Is Alex correct? \_\_\_\_\_

Explain your answer.

18 24 46 81 40 121

132

100

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Show how Whitney's method could work.

Compare answers with a partner.

