## Common factors

(1) a) Use 18 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 18
The factors of 18 are $\qquad$
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 $\qquad$
c) What are the common factors of 18 and 24?
(2) Write the numbers in the sorting diagram.


Complete the sentence.
The common factors of 15 and 24 are $\qquad$
(3) Find the common factors of each pair of numbers.
a) 12 and 20
b) 16 and 25
c) 20 and 50
d) 20 and 60
a) Complete the table.

| Factor pairs of 50 | Factor pairs of 75 | Factor pairs of 100 |
| :---: | :---: | :---: |
| $1 \times 50$ | $1 \times$ |  |
| $2 \times 25$ |  |  |
| $5 \times 10$ |  |  |
|  |  |  |

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

List 3 common factors of 360 and 180 that are greater than 50

Alex is making party bags.
She has 35 sweets and 25 balloons.
The sweets and balloons need to be shared equally, so that each bag has the same number of sweets and balloons.


Is Alex correct? $\qquad$

Explain your answer.


What number is Annie thinking of?

8 Whitney is trying to simplify these fractions.


Show how Whitney's method could work.

Talk about your answer with a partner.
$\qquad$

