

# Reasoning about multiplication

1 a) Complete the multiplications to describe the pictures.



$$4 \times 5 = \square$$



$$5 \times 4 = \square$$

Write  $<$ ,  $>$  or  $=$  to compare the multiplications.

$$4 \times 5 \bigcirc 5 \times 4$$

b) Complete the divisions to describe the pictures.



$$20 \div 4 = \square$$



$$20 \div 5 = \square$$

Write  $<$ ,  $>$  or  $=$  to compare the divisions.

$$20 \div 4 \bigcirc 20 \div 5$$

2 Write  $<$ ,  $>$  or  $=$  to compare the arrays.

a)

$$5 \times 6 \bigcirc 6 \times 4$$

b)

$$3 \times 6 \bigcirc 6 \times 3$$

c)

$$8 \times 3 \bigcirc 3 \times 8$$

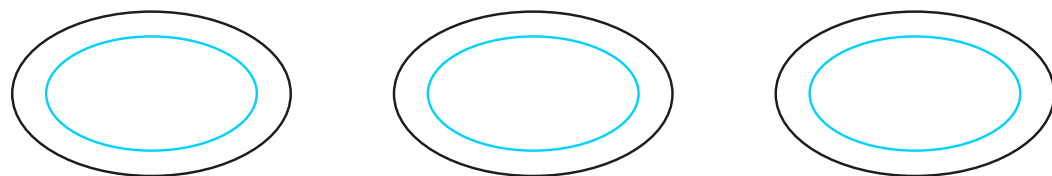
3 Rosie and Tommy each have 12 slices of melon.

a) Rosie shares her slices between 4 bowls.



How many slices are in each bowl?

b) Tommy shares his slices between 3 plates.



How many slices are on each plate?

c) Rosie gives a bowl of melon to Max.

Tommy gives a plate of melon to Jo.

Who gets more melon?

\_\_\_\_\_

4 Write  $<$ ,  $>$  or  $=$  to compare the calculations.

a)  $4 \times 3$    $2 \times 6$

c)  $5 \times 3$    $3 \times 4$

b)  $8 \times 3$    $4 \times 6$

d)  $3 \times 4$    $4 \times 5$



e)  $20 \div 4$    $20 \div 5$

g)  $30 \div 10$    $30 \div 6$

f)  $24 \div 2$    $36 \div 3$

h)  $18 \div 2$    $18 \div 3$

How did you work this out? Talk about it with a partner.

5 Here are some calculation cards.

$30 \div 6$

$4 \times 6$

$27 \div 3$

$4 \times 8$

$8 \times 3$

$12 \times 2$

$5 \times 6$

$18 \div 3$

Write each calculation in the table.

Less than $6 \times 4$	Equal to $6 \times 4$	Greater than $6 \times 4$

Write one more calculation in each column.

Did you have to work out all the calculations?

6 Complete the statements.

a)  $7 \times 3 > \square \times 3$

c)  $30 \div \square = \square \times 5$

b)  $24 \div \square < 2 \times 2$

d)  $12 \times \square > 12 \div \square$

How many different ways can you complete the statements?

