

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.



$20 \div 4 = \square$

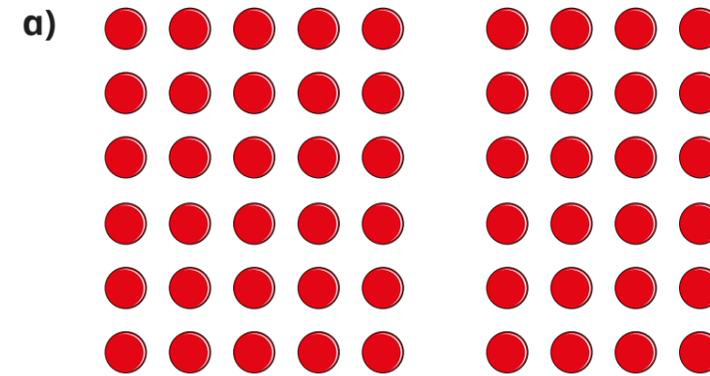


$20 \div 5 = \square$

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

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

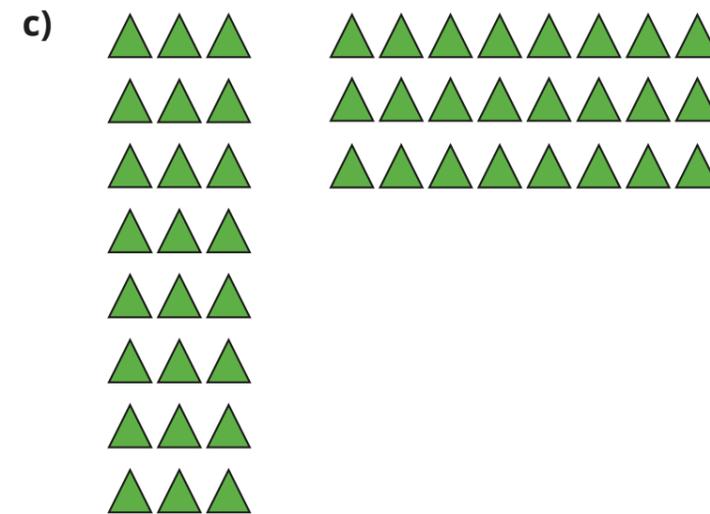
2 Write $<$, $>$ or $=$ to compare the arrays.



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



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



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

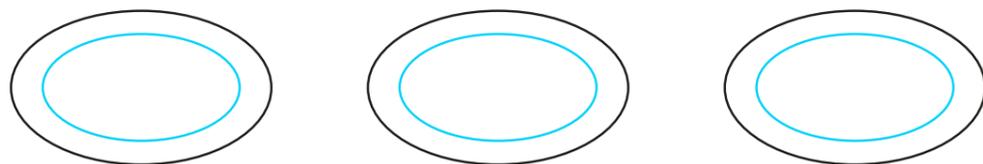
3 Rosie and Tommy each have 12 slices of melon.

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) 4×3 ○ 2×6

c) 5×3 ○ 3×4

b) 8×3 ○ 4×6

d) 3×4 ○ 4×5



e) $20 \div 4$ ○ $20 \div 5$

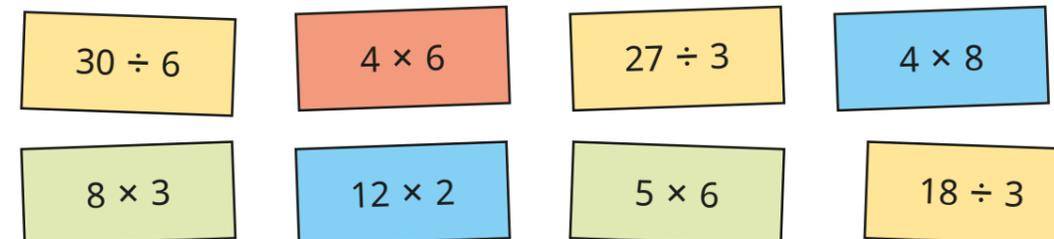
g) $30 \div 10$ ○ $30 \div 6$

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.



Write each calculation in the table.

Less than 6×4	Equal to 6×4	Greater than 6×4

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?

