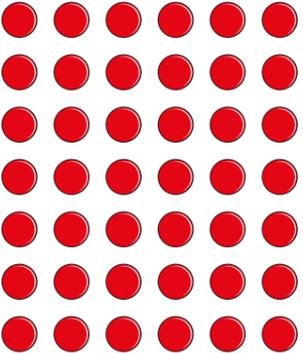
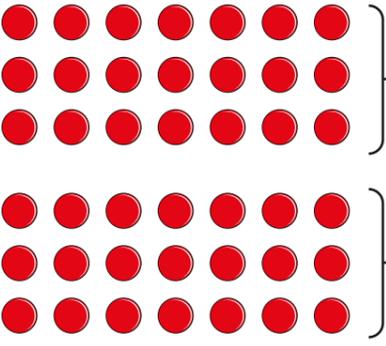


Use factor pairs

1 Work out the missing numbers.

a)  $7 \times 6 = \square$

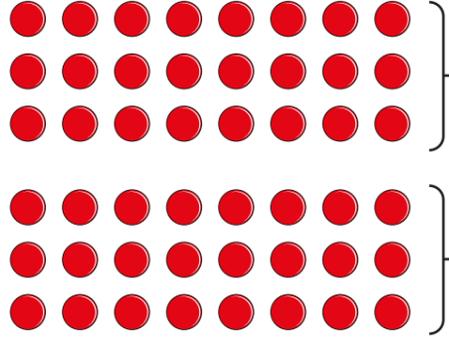
b)  $7 \times 3 = \square$
 $7 \times 3 = \square$

c) What do you notice about the totals in part a) and part b)?

d) Complete the number sentence.

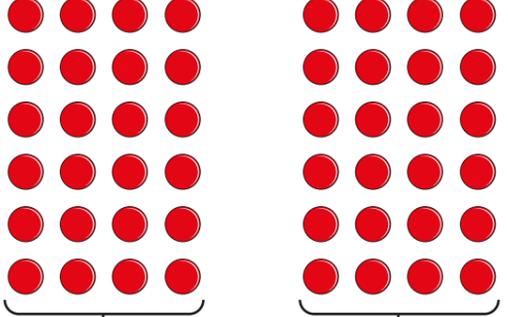
$$7 \times \square = 7 \times \square \times \square$$

2 Use the counters to work out the multiplications.

a)  $8 \times 3 = \square$
 $8 \times 3 = \square$

$$8 \times 6 = \square \times \square \times \square$$

$$= \square$$

b)  $8 \times 6 = \square \times \square \times \square$
 $8 \times 6 = \square$
 $6 \times 4 = \square$ $6 \times 4 = \square$

Which method do you prefer?

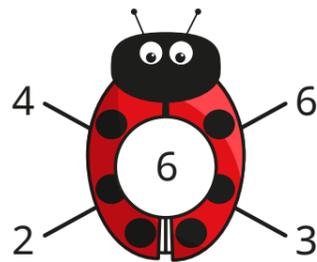
3 Use counters to complete the multiplications.

a) $4 \times 6 = \square \times \square \times \square$
 $= \square$

b) $7 \times 9 = \square \times \square \times \square$
 $= \square$



- 4 Dani is working out 13×6 using factor pairs.



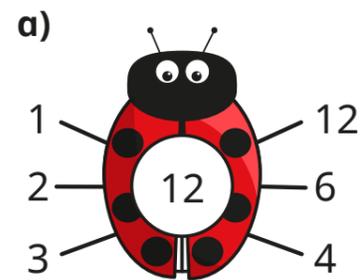
$$13 \times 6 = 13 \times 3 \times 2$$

$$= 39 \times 2$$

Complete the multiplication.

$13 \times 6 = \square$

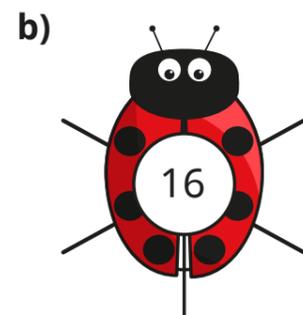
- 5 Use factor pairs to work out the multiplications.



$$12 \times 7 = \square \times \square \times \square$$

$$= \square \times \square$$

$$= \square$$



$$16 \times 5 = \square \times \square \times \square$$

$$= \square \times \square$$

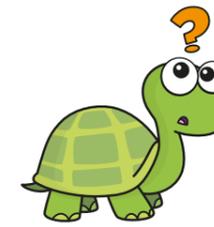
$$= \square$$

Compare answers with a partner.

Did you choose the same factor pairs?

- 6 A box of crayons contains 15 crayons.
How many crayons are there in 8 boxes?

- 7 Tiny is working out 18×7



$$18 \times 7 = 10 \times 8 \times 7$$

$$= 10 \times 56$$

$$= 560$$

a) What mistake has Tiny made?

b) Use a factor pair to work out 18×7

- 8 Mo uses a factor pair to work out a multiplication.

$$6 \times 2 \times 3$$

Write the two different multiplications that Mo could have been working out.

\times

\times

- 9 Sam is working out 18×8

I know that
 12×12 is 144



Use factor pairs to show how Sam can use this fact to work out 18×8
