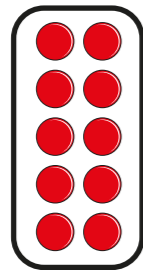


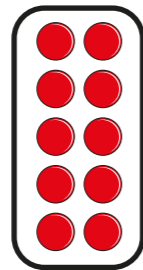
Multiply three numbers

1 Tommy is making arrays using counters.

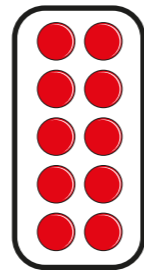
a) Complete the multiplications.



$$2 \times 5 = \square$$



$$2 \times 5 = \square$$



$$2 \times 5 = \square$$

b) Use your answer to part a) to complete the multiplication.

$$3 \times 2 \times 5 = 3 \times \square = \square$$

2 Use counters or cubes to complete the multiplications.

a) $2 \times 4 \times 5 = \square$

b) $3 \times 5 \times 4 = \square$

c) $2 \times 5 \times 8 = \square$

Is there a quick way to complete each multiplication?

Talk about it with a partner.

3 Complete the multiplications.

a) $3 \times 4 \times 5 = \square$

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

b) $2 \times 3 \times 8 = \square$

e) $3 \times 6 \times 10 = \square$

c) $2 \times 4 \times 7 = \square$

f) $2 \times 5 \times 12 = \square$

4 Is each statement true or false?

Tick your answers.

	True	False
$7 \times 8 = 7 \times 4 \times 2$	<input type="checkbox"/>	<input type="checkbox"/>
$12 \times 4 = 2 \times 4 \times 6$	<input type="checkbox"/>	<input type="checkbox"/>
$3 \times 2 \times 8 = 5 \times 8$	<input type="checkbox"/>	<input type="checkbox"/>
$2 \times 7 \times 4 = 4 \times 7 \times 2$	<input type="checkbox"/>	<input type="checkbox"/>

Compare answers with a partner.

5 Here are some digit cards.



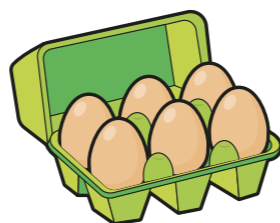
a) Use the digit cards to create a multiplication and work out the answer.

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

b) How many different multiplications can you create?

What do you notice about all of your answers?

- 6** Eggs are put in boxes in arrays of 2×3
 Dani buys 12 boxes.
a) How many eggs does she buy altogether?



Dani buys 5 more boxes.

- b)** How many eggs does she have now?

- 7** **a)** Write 30 as the product of 3 numbers.

$$\square \times \square \times \square = 30$$

- b)** Find all the possible ways to complete the multiplication.



- 8** Kim rolls three 6-sided dice.
 The product of her numbers is 60
a) What numbers could she have rolled?

- b)** How many different ways could Kim have made 60?
 Talk about it with a partner.
c) Roll three dice and find the product of the numbers
 you roll.

- 9** In the library there are 5 bookcases.
 Each bookcase has 4 shelves.
 On each shelf there are 12 books.
 How many books are there in the library?



