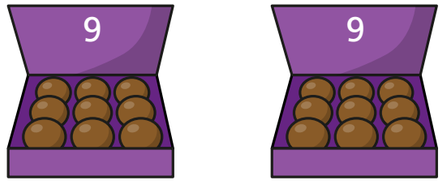
Multiply and divide by 9

1 Complete the sentences.

a)



There are [2] boxes.

There are [9] chocolates in each box.

There are [18] chocolates altogether.

$2 \times 9 =$ [18]

b)

There are [9] cubes.

There are [6] faces on each cube.

There are [54] faces altogether.

[9] × [6] = [54]

2 There are 9 players in a baseball team.

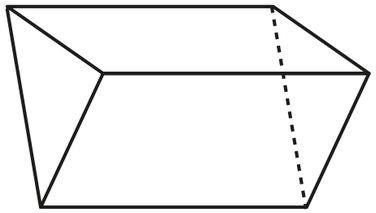
a) How many players are there in 7 baseball teams?

There are [63] players in 7 baseball teams.

b) If there are 81 players, how many full teams are there?

There are [9] full teams.

3 A triangular prism has 9 edges.



Use this information to complete the sentences.

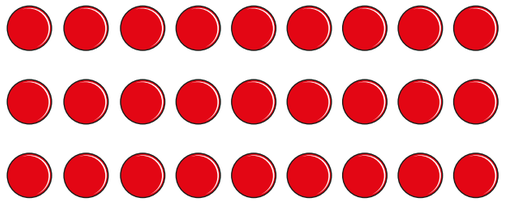
a) 5 triangular prisms have [45] edges.

b) [10] triangular prisms have 90 edges.

c) [11] triangular prisms have 99 edges.

d) 6 triangular prisms have [54] edges.

4 Complete the number sentences to describe the array.



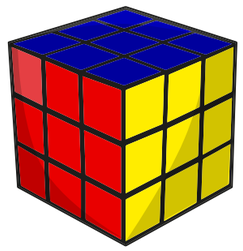
$3 \times 9 =$ 27

$9 \times$ 3 $=$ 27

27 $\div 9 = 3$

27 $\div$ 3 $= 9$

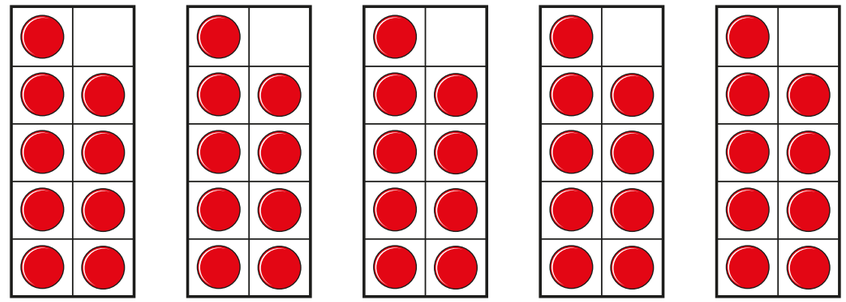
5 There are 9 coloured squares on each face of a puzzle cube.



How many coloured squares are there on the whole puzzle cube?

54

6 Eva is making groups of 9 on ten frames.



How can Eva work out how many counters she has altogether?

$9 \times 5 = 45$

Compare your method with a partner.

7 Here is a number puzzle.

□ × □ × △ = 81

Find three different values of the square and triangle.

△ = 1 △ = 9 △ = 81

□ = 9 □ = 3 □ = 1