

Challenge 1:

There are five towers with 3 cubes in each tower.  
How many cubes are there altogether?

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



Can you create the same for these multiplications:

3x7, 3x9, 3x3, 3x11

Start this rhythm:

*Clap, clap, click, clap, clap, click.*

Carry on the rhythm, what will you do on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

If  $5 \times 3 = 15$ , which number sentences would find the answer to  $6 \times 3$ ?

- $5 \times 3 + 6$
- $5 \times 3 + 3$
- $15 + 3$
- $15 + 6$
- $3 \times 6$

Explain how you know.

Complete the number sentences.

1 triangle has 3 sides.

3 triangles have \_\_\_\_ sides in total.

\_\_\_\_ triangles have 6 sides in total.

5 triangles have \_\_\_\_ sides in total.



$$1 \times 3 = 3$$

$$3 \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = 6$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Fill in the missing number facts.

$$1 \times 3 = \underline{\quad}$$

$$2 \times \underline{\quad} = 6$$

$$\underline{\quad} = 3 \times 3$$

$$9 \times 3 = \underline{\quad}$$

$$\underline{\quad} \times 3 = 30$$

$$8 \times \underline{\quad} = 24$$

$$6 \times 3 = \underline{\quad}$$

$$21 = \underline{\quad} \times 3$$

How many dots are there altogether?



There are \_\_\_\_ dice with \_\_\_\_ dots on each.

There \_\_\_\_ fours.

\_\_\_\_  $\times$  \_\_\_\_ = \_\_\_\_ dots.

There are 4 pens in a pack.  
How many pens are there in 7 packs?

Which part below does not show counting in fours?

$4 + 4 + 4 + 4$				
	<table><tr><td>4</td><td>4</td><td>4</td></tr></table>	4	4	4
4	4	4		

Explain why.