

Maths

5.1.21



Mental & Oral Starter

- Let's warm up by using our counting stick to count up in the 6x tables!
- Are you ready!?

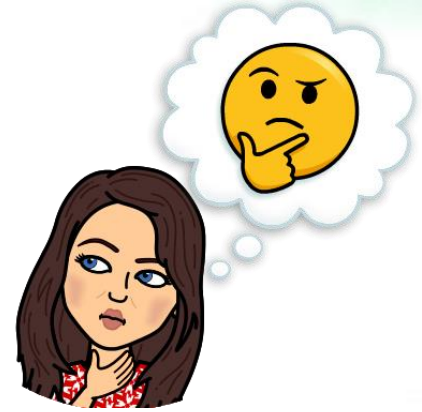


WALT: Multiply and divide by 6

S2S: I can

- Use a variety of representations to multiply by 6
- Use a variety of representations to divide by 6





Let's Learn



1) Complete the table.

	1	10	100	1,000
6	6	60	600	6,000

2) Complete the missing numbers.

$$1 \times 6 = \underline{6}$$

$$2 \times 6 = \underline{12}$$

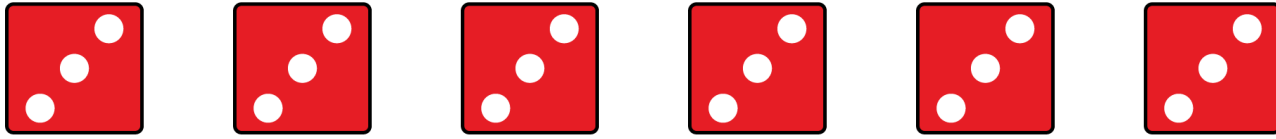
$$4 \times 6 = \underline{24}$$

$$8 \times 6 = \underline{48}$$

3) $7 \times 6 = \underline{6} \times 7$



What do you see?



There are 6 equal groups of 3

We can represent this as repeated addition:

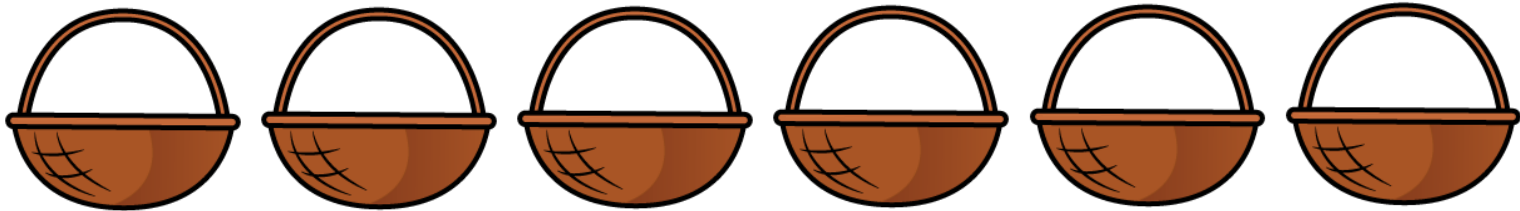
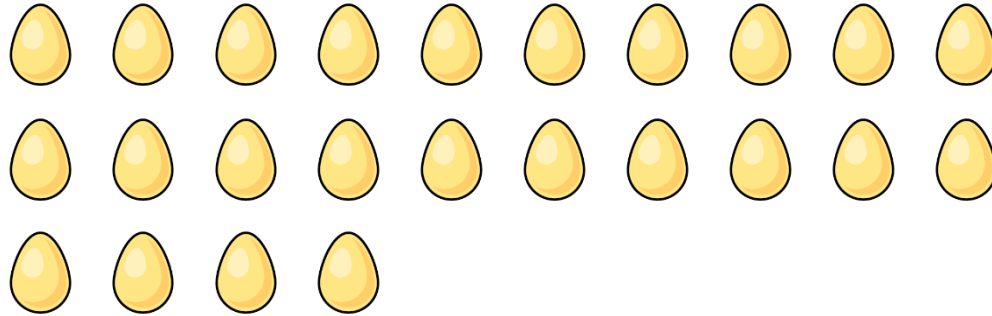
$$3 + 3 + 3 + 3 + 3 + 3 = 18$$

How can we represent this as a multiplication calculation?

$$3 \times 6 = 18 \text{ or } 6 \times 3 = 18$$



There are 24 eggs altogether.

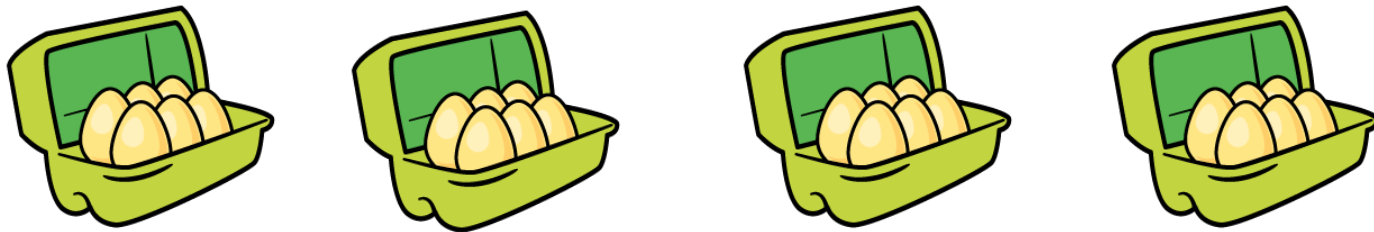
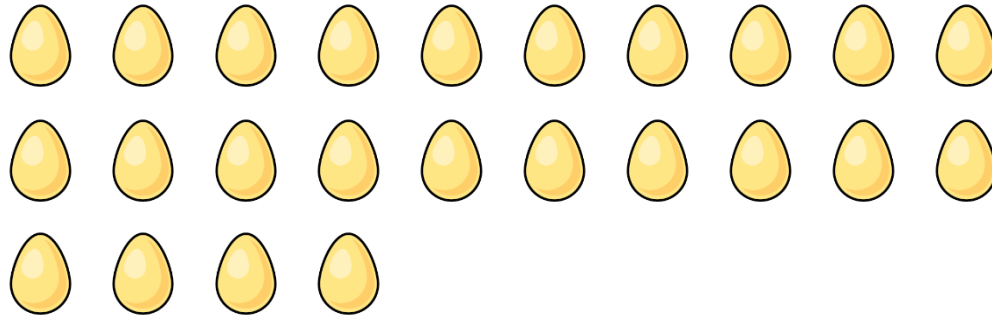


$$24 \text{ divided by } 6 = 4$$

We have shared our 24 eggs into 6 baskets leaving us 4 in each basket.



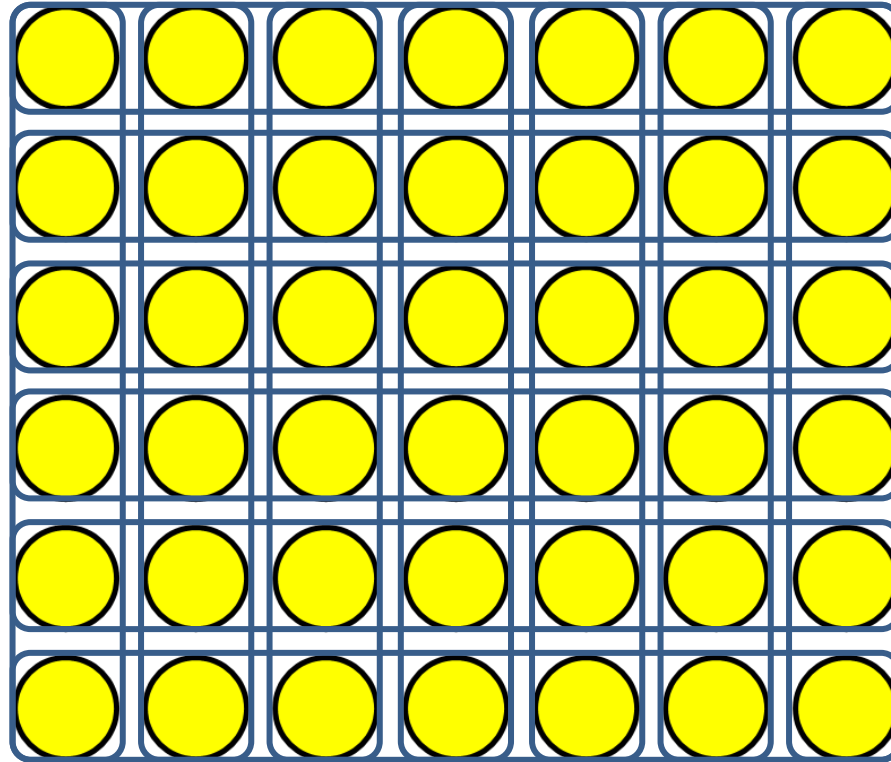
There are 24 eggs altogether.



$$24 \text{ divided by } 6 = 4$$

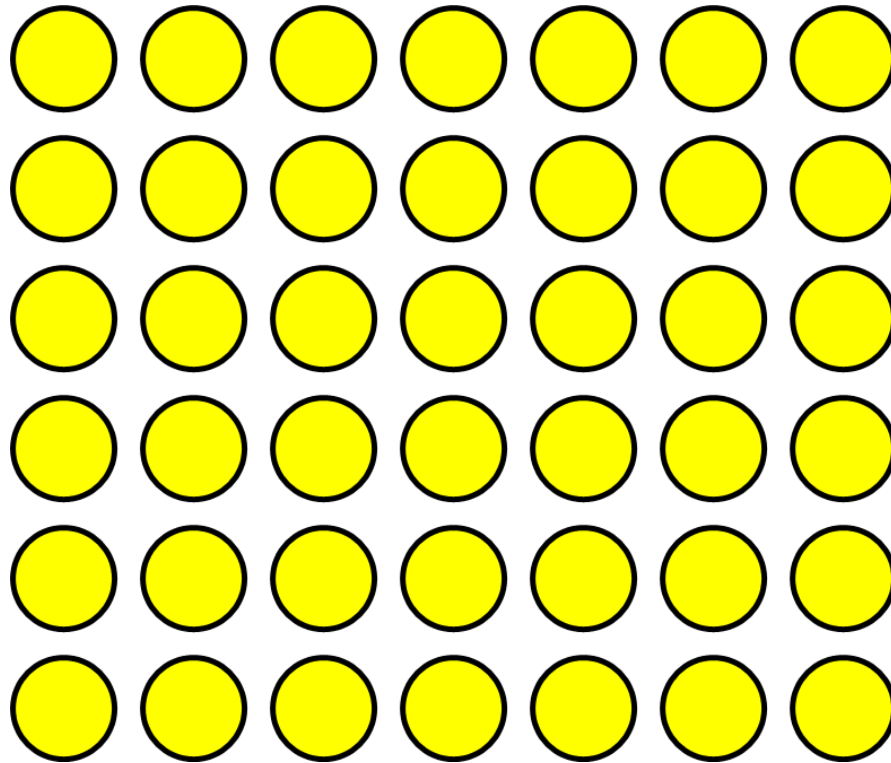
This time we have made groups of 6. 6 shows us how many eggs are in each egg box. The number 4 tells us how many egg boxes we have.





There are 6 rows of 7
There are 7 columns of 6





$$6 \times 7 = 42$$

$$7 \times 6 = 42$$

$$42 \div 6 = 7$$

$$42 \div 7 = 6$$



Independent Practice



Complete today's worksheet:

Multiply and divide by 6



1 Complete the sentences.



a) There are boxes.

There are eggs in each box.

There are eggs altogether.



b) There are spiders.

There are legs on each spider.

There are legs altogether.



c) There are boxes.

There are eggs in each box.

There are eggs altogether.

2 a) Rosie has 30 strawberries.



She shares them equally between 6 bowls.

a) Draw on the picture to show how Rosie shares the strawberries.

b) How many strawberries does Rosie put in each bowl?

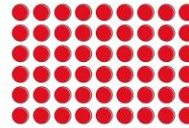
Rosie puts strawberries in each bowl.

3 These apples are being put into bags of 6



How many bags are needed?

4 Complete the number sentences to describe the array.



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

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

$$\square \div 6 = \square$$

$$\square \div \square = \square$$

5 A red ribbon is 6 cm long.

A yellow ribbon is 7 times as long as the red ribbon.

How long is the yellow ribbon?

The yellow ribbon is cm long.

6 There are 66 children sitting in rows.

There are 6 children in each row.

How many rows are there?

7 Nails come in boxes of 100

A crate holds 6 boxes.

A shop orders 4,800 nails.

How many crates does the shop order?



8 Teddy has an odd number of counters.

I can share my counters into 6 equal groups.



Do you agree with Teddy? _____

Why? _____



Self-Assessment

- Have you been successful today?
- How do you know?

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-Used a variety of representations to multiply by 6

-Used a variety of representations to divide by 6

