7.01.21

IALT: multiply 3 numbers

Round to the neartest 10:

6 5657 484 373 9920

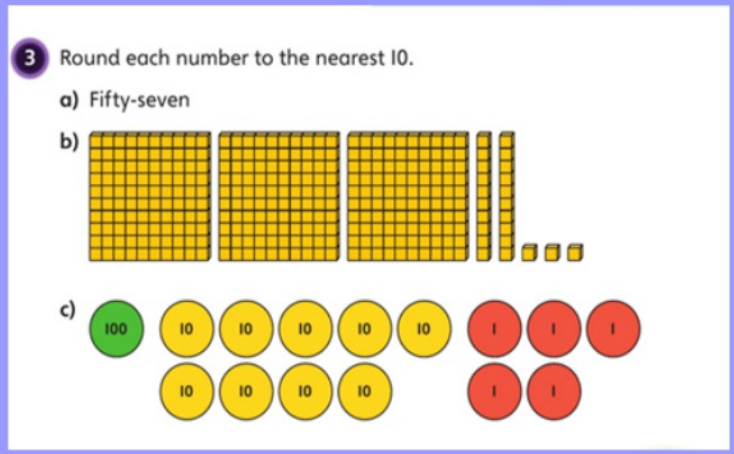
Round to the nearest 100:

6473 89 4783 7484

Make 10 times bigger:

43 432 765 90

Challange



https://www.topmarks.co.uk/maths-games/daily10

Daily Counting

6

11

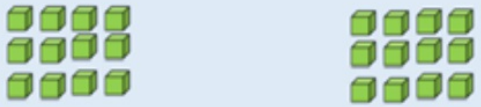
12

Have we done this before?

If yes, when?

Activity 1 — Multiply 3 Numbers

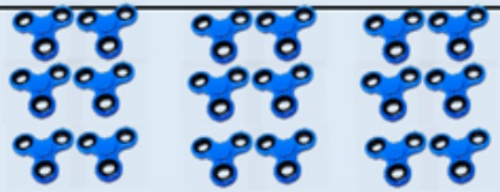
Complete the table.

	
I have __ lot of __, 3 times.	I have __ lot of __, twice.
___ x ___ x ___	___ x ___ x ___
8 x 3	12 x __

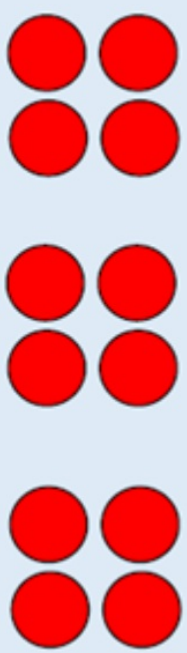
What do we need to work out first?

Activity 2 — Multiply 3 Numbers

Complete the table.

	
I have __ lot of __, 2 times	I have __ lot of __, 3 times.
___ x ___ x ___	___ x ___ x ___
8 x 2	6 x __

What do you notice about these sums?



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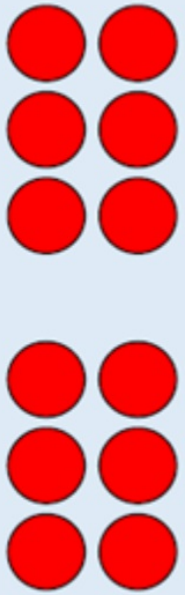


Complete the calculations.

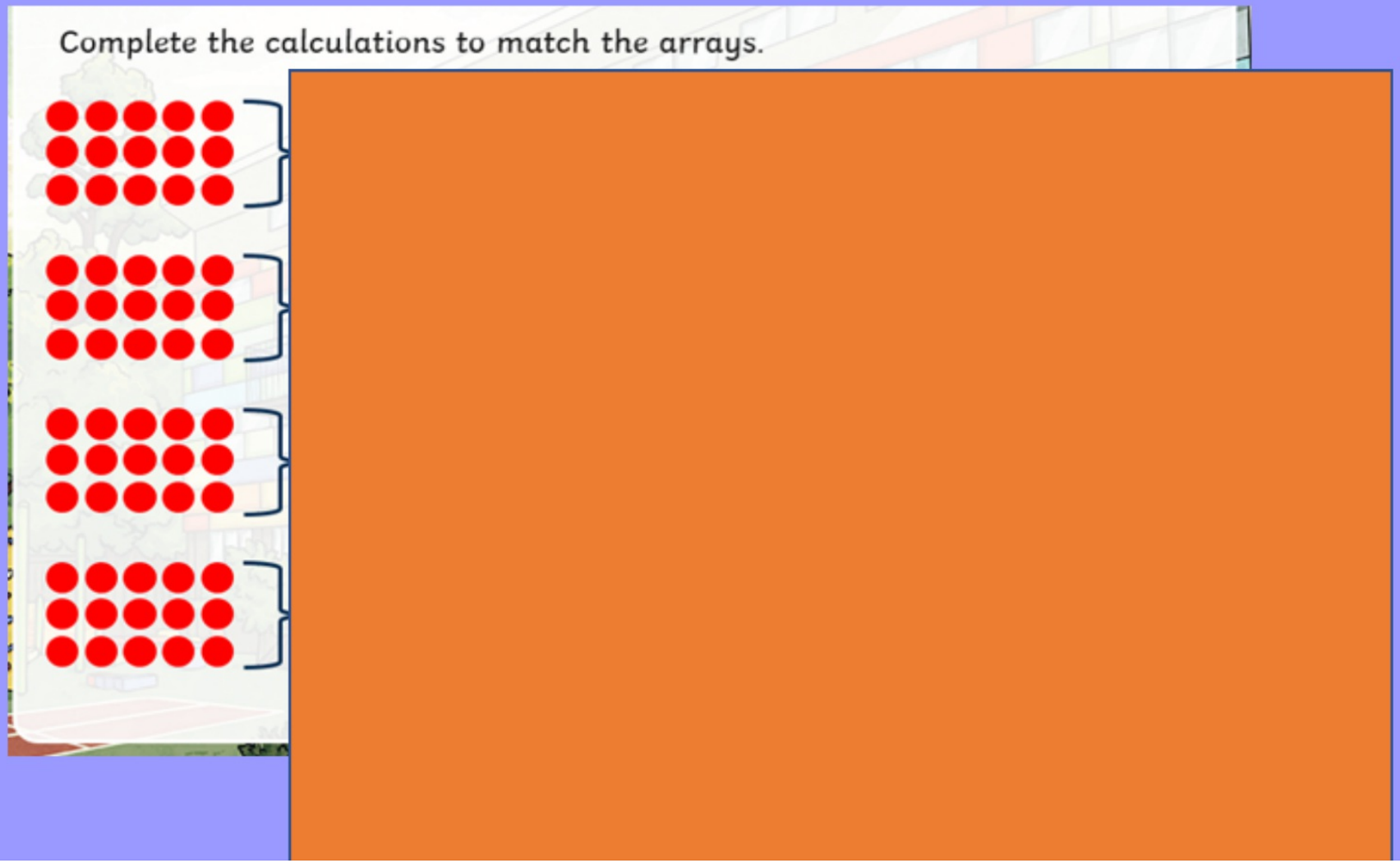
___ x ___ x ___

___ x ___

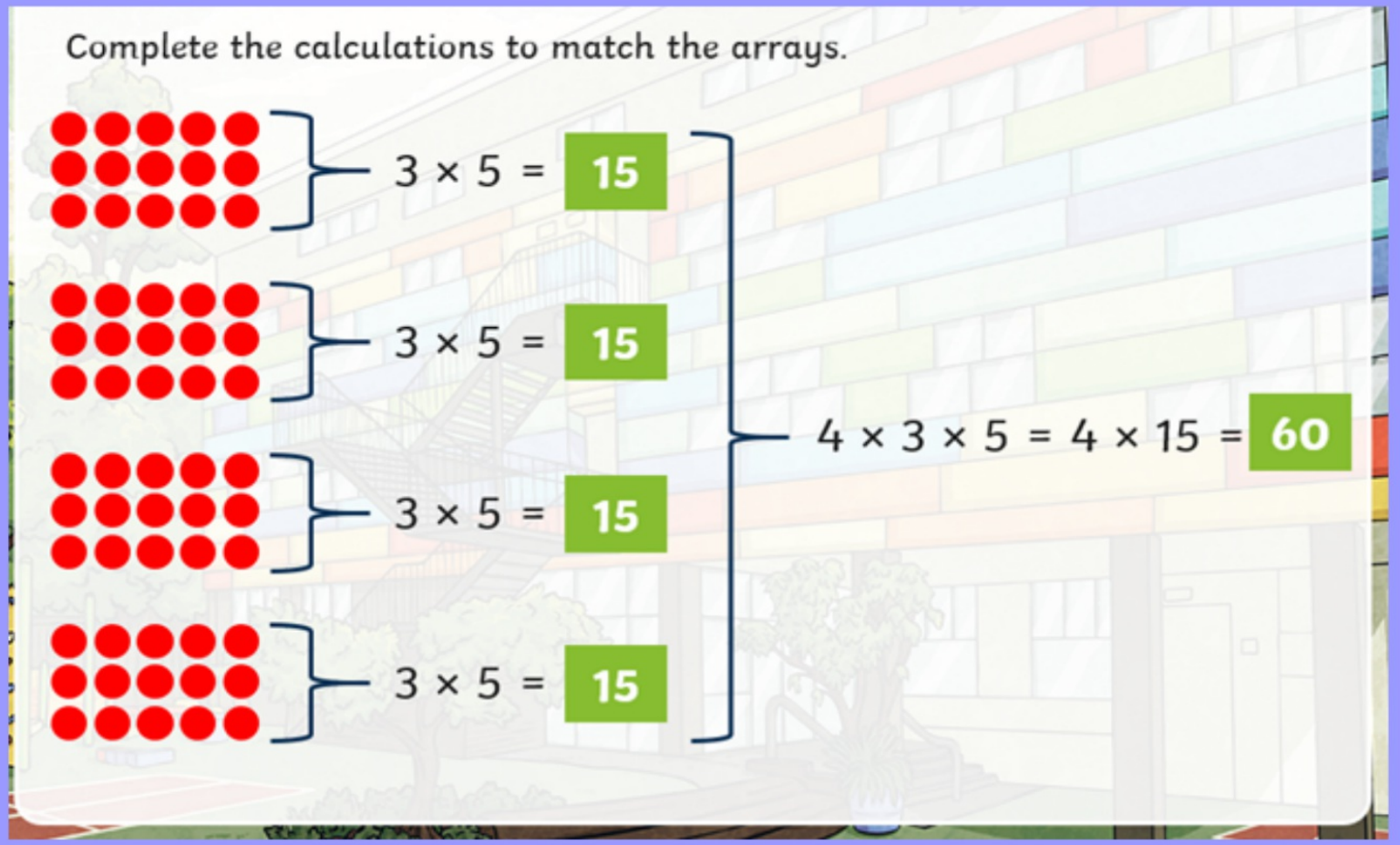
___ x ___ x ___

___ x ___

How would we work out these arrays?



Answers:


Complete the calculations to match the arrays.
3 × 5 = 15
3 × 5 = 15
3 × 5 = 15
3 × 5 = 15
4 × 3 × 5 = 4 × 15 = 60

Solve this word problem. What picture and multiplication calculation could you use?

There are five boxes of cupcakes. Each box contains two rows of four. How many cupcakes are there altogether?

Draw It!

Record It!

Answers:

Solve this word problem. What picture and multiplication calculation could you use?

There are five boxes of cupcakes. Each box contains two rows of four. How many cupcakes are there altogether?

Draw It!

Record It!

$5 \times 2 \times 4 = 40$

Always, sometimes, never.....

Read the statement below. Is it always, sometimes or never true?
Explain your reasoning.

If I change the order of the three numbers being multiplied in a calculation, the answer will change.

Answer:

Read the statement below. Is it always, sometimes or never true? Explain your reasoning.

If I change the order of the three numbers being multiplied in a calculation, the answer will change.

This is never true. Multiplication is commutative. The order in which a sequence of numbers is multiplied together does not change the answer.
e.g. $7 \times 2 \times 2 = 28$ $2 \times 2 \times 7 = 28$ $2 \times 7 \times 2 = 28$

Mild:

6 x 5 x 1

3 x 6 x 2

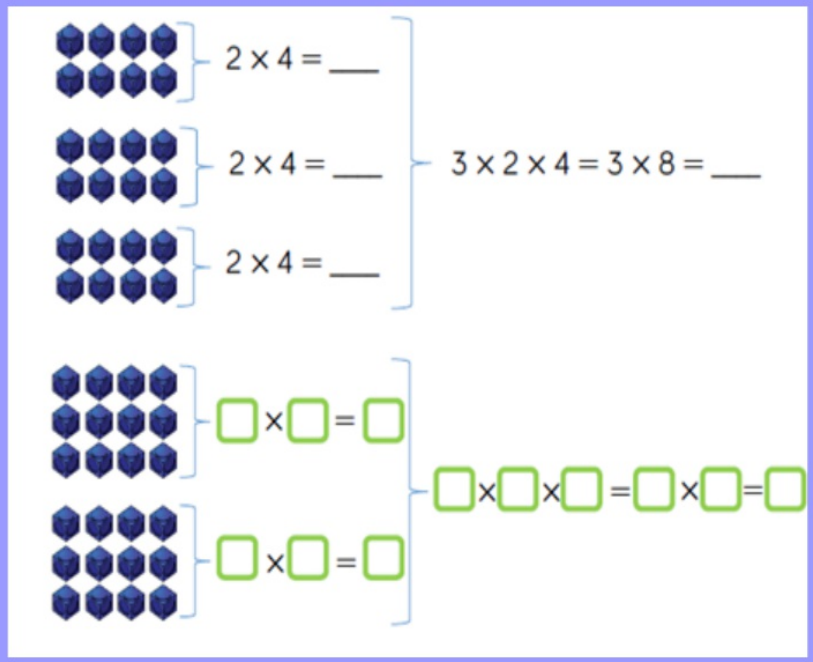
4 x 5 x 1

3 x 2 x 1

2 x 4 x 7

4 x 2 x 6

Spicy:



Hot:

Make the target number of 84 using three of the digits below.

7	5	3	4	6	2

□ × □ × □ = 84

Multiply the remaining three digits together, what is the product of the three numbers?

Is the product smaller or larger than 84?

Can you complete this problem in more than one way?

Burning chilli:

7 x 4 x 8 =

4 x 7 x 6 =

Answers:

Mild:

6 x 5 x 1 = 30

3 x 6 x 2 = 36

4 x 5 x 1 = 20

3 x 2 x 1 = 6

2 x 4 x 7 = 56

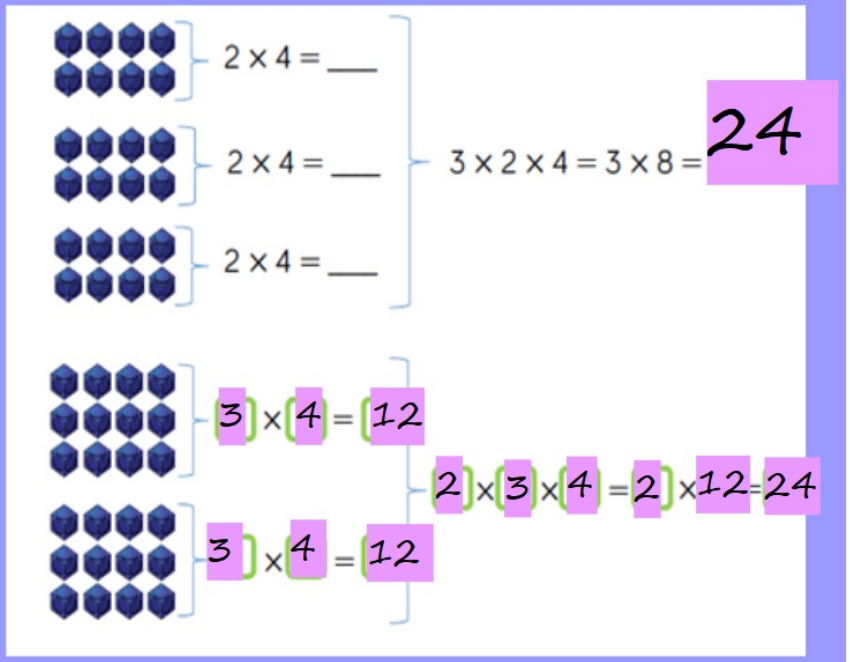
4 x 2 x 6 = 48

Burning chilli:

7 x 4 x 8 = 224

4 x 7 x 6 = 168

Spicy:



Hot:

Make the target number of 84 using three of the digits below.

7	5	3	4	6	2

□ × □ × □ = 84

Multiply the remaining three digits together, what is the product of the three numbers?

Is the product smaller or larger than 84?

Can you complete this problem in more than one way?