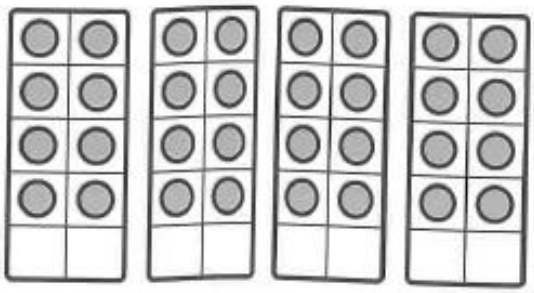
Multiplying more than two numbers 1

1 What multiplication can you see in each diagram?

a)



$4 \times 2 \times 4 = \square$

$\square \times 4 = \square$

b)

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

$\square \times \square = \square$

2 There are 2 boxes of chocolates. They contain 24 chocolates in total. Draw a diagram to represent what the boxes could look like.

3 Aki is working out the answer to $2 \times 7 \times 9$.

He multiplied 7 by 9 first and then multiplied by 2.

Why do you think Aki did this?

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4 There are 11 plates with 5 cakes on each plate.

All the cakes are the same.

How many candles are there in total?

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

There are $\square$ candles in total.

5 Work out the multiplications.

a) $2 \times 4 \times 6 = \square$

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

c) $4 \times 5 \times 5 = \square$

d) $5 \times 7 \times 3 = \square$

e) $\square = 9 \times 2 \times 4$

f) $9 \times 2 \times 8 = \square$

6 Fill in the missing numbers.

a) $4 \times \square \times 2 = 32$

b) $2 \times 7 \times \square = 70$

c) $\square \times 7 \times 5 = 70$

d) $54 = \square \times 9 \times 2$

e) $7 \times 0 \times \square = \square$

f) $36 = 6 \times \square \times 6$

7 Explain how you can work out the multiplication.

Did you use the same method as your partner?

$4 \times 5 \times 7 \times 6 \times 0 \times 3 \times 2 \times 1 =$ ☐

8 Write a number from 1 to 9 into each empty box.

CHALLENG

How many different solutions can you find?

☐ × ☐ × ☐ = 216

Reflect

How many ways can you work out $2 \times 8 \times 5$?

Which method is the most efficient?