

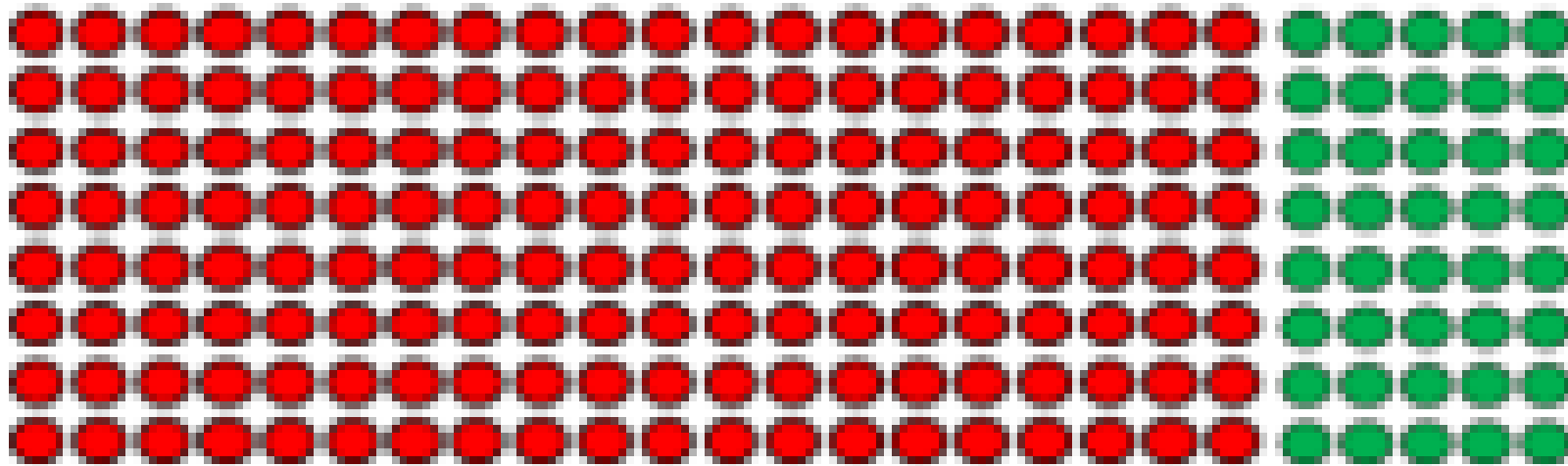
Year 4 Maths, 6/1/21

How would you find the answer to

$$25 \times 8$$

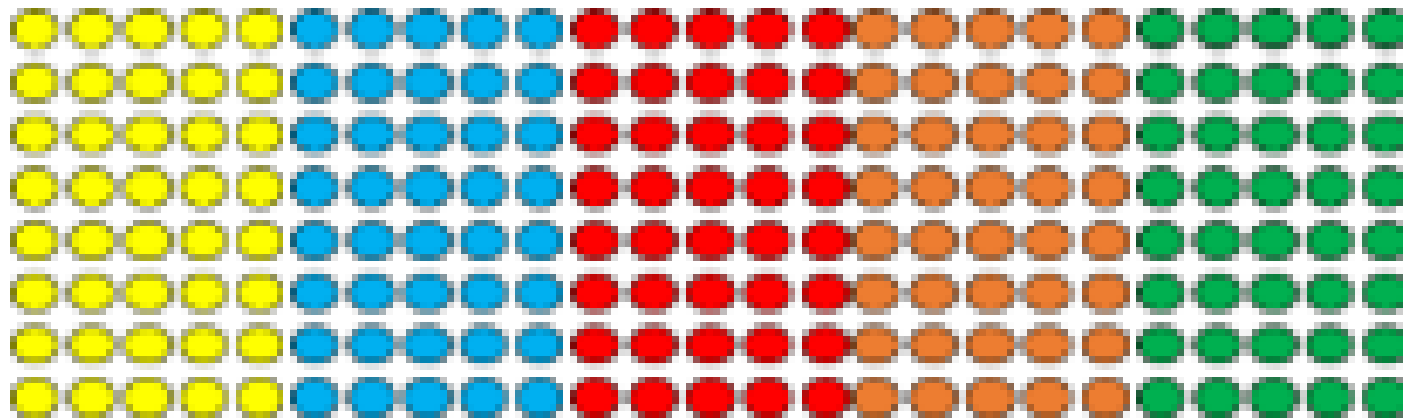
## Method 1

$$\begin{aligned} 25 \times 8 &= 20 \times 8 + 5 \times 8 \\ &= 160 + \square = \square \end{aligned}$$



## Method 2

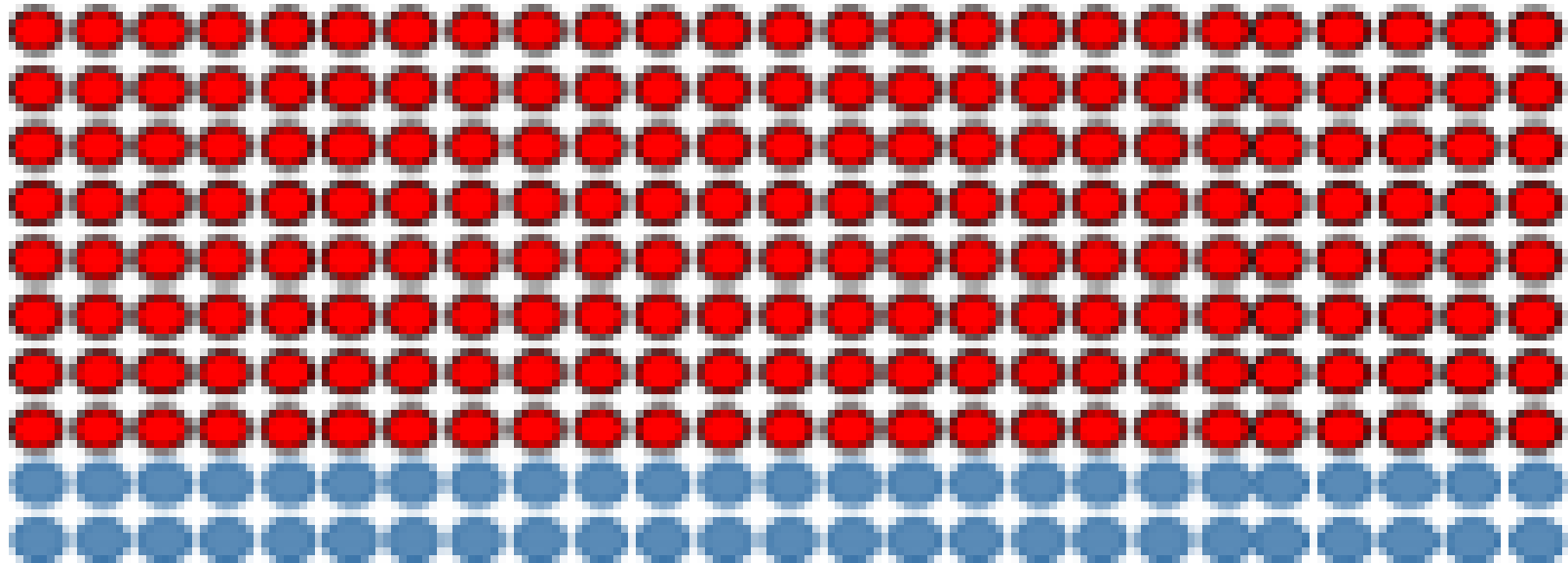
$$25 \times 8 = 5 \times 5 \times 8$$
$$= 5 \times \square = \square$$



## Method 3

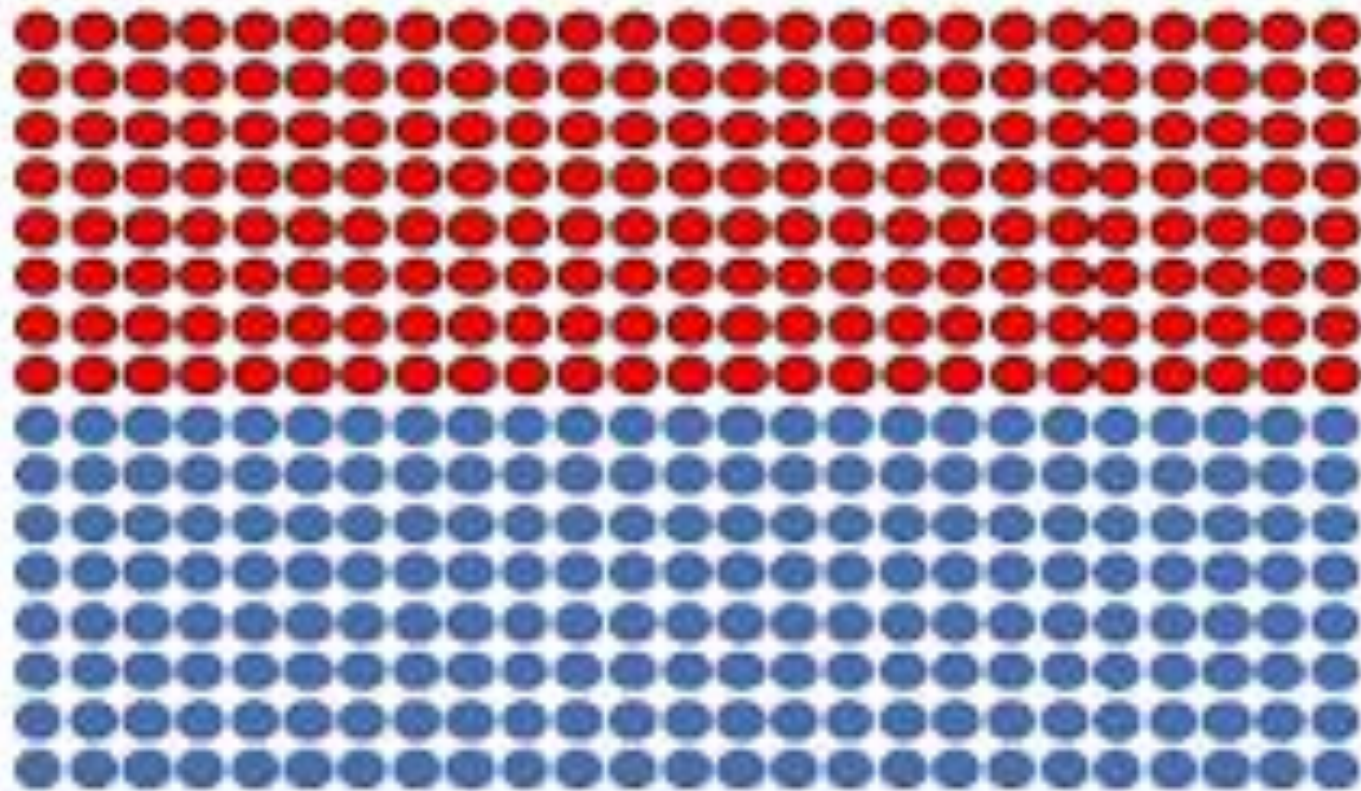
$$25 \times 8 = 25 \times 10 - 25 \times 2$$

$$= \square - \square = \square$$



## Method 4

$$25 \times 8 = 50 \times 8 \div 2$$
$$= \square \div \square = \square$$



Which method is most **efficient**?

Can you think of any other ways of doing it?

LO: Use efficient methods  
to multiply

▶ Learning habits?



# Guided practice

How could we efficiently solve  $225 \times 8$ ?

# Independent practice

Choose your own method to solve:

ONE CHILLI:

$$15 \times 3 = ?$$

$$24 \times 5 = ?$$

$$31 \times 6 = ?$$

TWO CHILLI:

$$34 \times 6 = ?$$

$$48 \times 8 = ?$$

$$75 \times 9 = ?$$

THREE CHILLI:

$$136 \times 4 = ?$$

$$428 \times 5 = ?$$

$$563 \times 7 = ?$$

# Independent practice **answers**

ONE CHILLI:

$$15 \times 3 = 45$$

$$24 \times 5 = 120$$

$$31 \times 6 = 186$$

TWO CHILLI:

$$34 \times 6 = 204$$

$$48 \times 8 = 384$$

$$75 \times 9 = 675$$

THREE CHILLI:

$$136 \times 4 = 584$$

$$428 \times 5 = 2140$$

$$563 \times 7 = 3941$$

# DIVE DEEPER 1

Teddy has calculated  $19 \times 3$



$$20 \times 3 = 60$$

$$60 - 1 = 59$$

$$19 \times 3 = 59$$

Can you explain his mistake and correct the diagram?

Here are three number cards.

21

42

38

Dora, Annie and Eva choose one of the number cards each.

They multiply their number by 5

Dora says,



I did  $40 \times 5$  and then subtracted 2 lots of five.

Annie says,

I multiplied my number by 10 and then divided 210 by 2



Eva says,

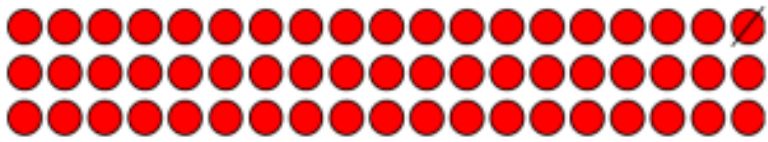


I halved my 2-digit number and doubled 5 so I calculated  $21 \times 10$

Which number card did each child have?  
Would you have used a different method to multiply the numbers by 5?

# DIVE DEEPER 1 answers

Teddy has calculated  $19 \times 3$



$$20 \times 3 = 60$$

$$60 - 1 = 59$$

$$19 \times 3 = 59$$

Can you explain his mistake and correct the diagram?

Teddy has subtracted one, rather than one group of 3

He should have calculated,

$$20 \times 3 = 60$$

$$60 - 1 \times 3 = 57$$



Here are three number cards.

21

42

38

Dora, Annie and Eva choose one of the number cards each.

They multiply their number by 5

Dora says,



I did  $40 \times 5$  and then subtracted 2 lots of five.

Annie says,

I multiplied my number by 10 and then divided 210 by 2



Eva says,

I halved my 2-digit number and doubled 5 so I calculated  $21 \times 10$



Which number card did each child have?  
Would you have used a different method to multiply the numbers by 5?

Dora has 38

Annie has 21

Eva has 42

Children can then discuss the methods they would have used and why.