



Chilli Challenges - 25/1/21

Answer at least one challenge question.

Self-assess your learning with the answers. No Peeking!

Mild Green Chilli



$$18 \times 4 = 10 \times 8 \times 4$$

Hot Yellow Chilli

Teddy has calculated 19×3



$$20 \times 3 = 60$$

$$60 - 1 = 59$$

$$19 \times 3 = 59$$

Can you explain his mistake and correct the diagram?

Spicy Red Chilli

Here are three number cards.



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

They multiply their number by 5

Dora says,



I did 40×5 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 21×10

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

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Answers

False

If you partition the 18 into 10 and 8, both numbers are multiplied by 4

$$18 \times 4 = 10 \times 4 + 8 \times 4$$

Teddy has subtracted one, rather than one group of 3

He should have calculated,

$$20 \times 3 = 60$$

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



Dora has 38

Annie has 21

Eva has 42

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