

Extra Maths Challenges: Friday 22nd January 2021

True or false?

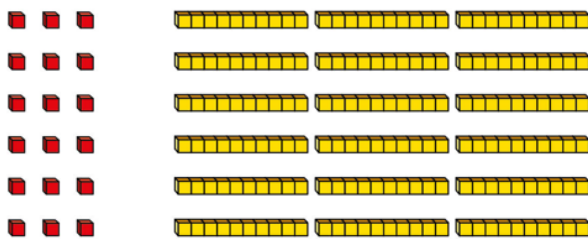
$$5 \times 30 = 3 \times 50$$

Prove it.

Rosie has 240 cakes to sell.
She puts the same number of cakes in each box and has no cakes left over.
Which of these boxes could she use?



Use the base 10 to complete Scott's calculations.

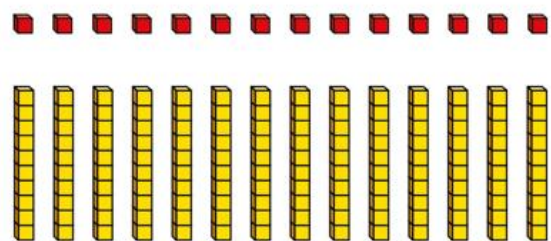


$6 \times 3 = \square$

$6 \times 30 = \square$

How does the answer to the first calculation help you work out the second calculation?

Use these pieces of base 10 to complete the divisions.



$14 \div 2 = \square$

$140 \div 2 = \square$

Ahmed says, "I know that when multiplying 5 by 6 the total will be ten times smaller than the total for 50×6 , because 5 is ten times smaller than 50."

Do you agree?

Can you think of other examples where this does or doesn't work?

Explain your answer.

Huan throws two darts at the dartboard.

He multiplies the numbers he hits together.

Huan's score is 240

What two numbers could the darts have landed in?



and

How many different answers can you find?