



# Chilli Challenges - 8/2/21

Answer at least one challenge question.

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

## Mild Green Chilli



If I roll two six-sided dice there are 36 possible combinations.



## Hot Yellow Chilli

Here are the meal choices in the school canteen.

Starter	Main	Dessert
Soup Garlic Bread	Pasta Chicken Beef Salad	Cake Ice-cream Fruit Salad

There are 2 choices of starter, 4 choices of main and 3 choices of dessert.

How many meal combinations can you find? Can you use a systematic approach?

Can you represent the combinations in a multiplication?

If there were 20 meal combinations, how many starters, mains and desserts might there be?

## Spicy Red Chilli

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Alex has 6 T-shirts and 4 pairs of shorts.

Dexter has 12 T-shirts and 2 pairs of shorts.

Who has the most combinations of T-shirts and shorts?

Explain your answer.

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## Answers

True

For each possible number on the first roll there are 6 corresponding possibilities on the second roll.

There are 24 meal combinations altogether.

$$2 \times 4 \times 3 = 24$$

20 combinations

$$1 \times 1 \times 20$$

$$1 \times 2 \times 10$$

$$1 \times 4 \times 5$$

$$2 \times 2 \times 5$$

Accept all other variations of these four multiplications e.g.  $1 \times 20 \times 1$

Alex and Dexter have the same number of combinations of T-shirts and shorts.