

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?

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 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.

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