Use this sheet WHEN you've completed the main worksheet and want a challenge. Remember to use your blue book if you have it to show your workings. The questions were resourced from White Rose

## Maths and Twinkl.

1. Here are the meal choices in the school canteen.

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

The question is $2 \times 4 \times 3=24$
$(2 \times 4=8 \times 3=24)$

Multiple answers:
You could have
$1 \times 1 \times 20$
$1 \times 2 \times 10$
$2 \times 2 \times 5$
2. 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 Tshirts and shorts?
Explain your answer.

They both have 24 combinations. $6 \times 4=24$ and $12 \times 2=24$

Multiple answers. He could have:
3 hats, 4 jumpers and 2 pair of trousers.
All answers will have to multiply to make 24.

Ben is wrong. Ben has 12 possible outfits. Eli has 18 possible outfits.

Ben $=3 \times 2 \times 2=12$
Eli $=6 \times 3=18$

