

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?

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 T-shirts and shorts? Explain your answer.

3. 1) Henry has some hats, some jumpers and some pairs of trousers. He can make 24 different outfits.

How many hats, jumpers and pairs of trousers could he have?

- 2) Ben has 3 hats, 2 jumpers and 2 pairs of trousers.

Eli has 6 jumpers and 3 pairs of trousers.



I have the most different possible outfits.

Ben

Is Ben wrong or right?

Use multiplication calculations to prove it.



**When you've finished – check your answers using the answers sheet.**