1 Rayheem has

16 shirts5 pairs of jeans3 jackets

Rayheem chooses an outfit to wear. An outfit is 1 shirt, 1 pair of jeans and 1 jacket.

Work out how many different outfits Rayheem can choose.

of outfits = # of shirts \times # of jeans \times # of jackets = 16 $\times 5 \times 3$ () = 240 ()

240

(Total for Question 1 is 2 marks)

2 A pet shop has

7 guppy fish 13 tetra fish 5 angel fish.

David is going to choose one of the following combinations of fish

a guppy fish and an angel fish or a tetra fish and an angel fish or a guppy fish, a tetra fish and an angel fish.

Show that there are 555 different ways for David to choose his fish.

ways of choosing: 2. tetra and angel: 7×5=35 (1) 2. tetra and angel: 13×5=65 3. guppy, tetra and angel: 7×13×5=455 total number of ways = 35+65+455=555 (1)

(Total for Question 2 is 2 marks)