



#1

Madeline plays the lottery and is trying to calculate her chances of winning. If the lottery number has 5 digits, how many possible combinations are there?

orders

Show your work

#2

## Choose the best answer

Joshua is at the horse races and is betting on which one will win. If there are 4 horses, how many different outcomes are possible?

- 24                       23  
 20                       27

Show your work

#3

## Choose the best answer

There are 2 different coloured marbles in a bag and Matthew and their friends are taking turns picking one out of the bag. How many different orders are possible?

- 2                               1  
 4                               0

Show your work



#4

Angela is picking 5 apples from the tree in the backyard. In how many different orders can she pick them?

orders

Show your work

#5

At the movies there are 5 people in a theatre. At the end of the movie they all get up to leave. In how many different orders can the people leave the theatre one by one?

orders

Show your work

#6

Anthony is shooting targets at the range. If there are 3 targets, in how many different orders can they pop up one by one?

orders

Show your work



#7

## Choose the best answer

There are 2 cars in a used car lot. In how many different orders can they be sold one by one?

 3 2 0 4

Show your work

#8

## Choose the best answer

At the movies there are 4 people in a theatre. At the end of the movie they all get up to leave. In how many different orders can the people leave the theatre one by one?

 17 24 26 21

Show your work

#9

## Choose the best answer

Ethan has 3 homework questions left to do, but he hates doing them in sequential order. In how many different orders can Ethan do them?

 6 7 4 3

Show your work



#10

Maya is at the horse races and is betting on which one will win. If there are 5 horses, how many different outcomes are possible?

orders

Show your work

#11

William has 5 homework questions left to do, but he hates doing them in sequential order. In how many different orders can William do them?

orders

Show your work

#12

Choose the best answer

Kaylee is at the horse races and is betting on which one will win. If there are 5 horses, how many different outcomes are possible?

- 127                       96  
 115                       120

Show your work

Question	Answer
#1	120
#2	24
#3	2
#4	120
#5	120
#6	6
#7	2
#8	24
#9	6
#10	120
#11	120
#12	120