## Mathelpers

## Name:

$\qquad$

## Independent Events

1) The probability that $A$ hits a target is $1 / 4$ and that $B$ hits a target is $1 / 3$. They each fire once at the target. Find the probability that:
2) They both hit the target
3) The target is hit at least once
4) The target is hit exactly once
5) Five cards-the ten, jack, queen, king and ace of diamonds, are well-shuffled with their face downwards. One card is then picked up at random.
6) What is the probability that the card is the queen?
7) If the queen is drawn and put aside, what is the probability that the second card picked up is:
i. an ace?
ii. a queen?
8) 9) What is the probability of tossing a coin three times and getting two heads and a tail?
1) What is the probability of tossing a coin three times and getting a head, then a tail, then a head?
2) A card is drawn from a deck of ten cards numbered 1 through 10. The card is replaced in the deck and another card is drawn. Find the probability of each outcome.
3) $P(9$ and then a 7)
4) $P(6$ and a 4)
5) $P$ (an even and then a 2 )
6) $P$ (two numbers less than 6)
7) $P(8$ and then an odd number)
8) $P$ (two odd numbers)
