614 - Pick one Block

MATHS / PROBABILITY

DESCRIPTION

Students consider the probability of the following events:

1. Picking the 123 piece from the 9 pcs Set as a random choice.

2. Picking the 222 piece from the 9 pcs Set as a random choice.

3. Picking the 123 or 222 piece from the 9 pcs Set as a random choice.

SOLUTIONS/EXAMPLES

Start by finding the identical pieces.

1. The 9 pcs Set contains two 123 pieces, so the probability to pick a 123 piece from the set is
$\frac{2}{9} = 0.\dot{2} = 22.\dot{2}\%$.

2. The 9 pcs Set contains one 222 piece, so the probability to pick the 222 piece from the set is
$\frac{1}{9} = 0.\dot{1} = 11.\dot{1}\%$.

3. The 9 pcs Set contains two 123 pieces and one 222 piece, so the probability to pick 123 or 222 is
$\frac{2}{9} + \frac{1}{9} = \frac{3}{9} = \frac{1}{3} = 0.\dot{3} = 33.\dot{3}\%$.

How many	1	1	1	1	1	2	2
Pieces							

PRIOR KNOWLEDGE:

The traditional model of probability

RECOMMENDATION/COMMENTS