Grades 8 (S), 9-12 (S)

Duration: 15 min

Tools: one 9 pcs Set / pair

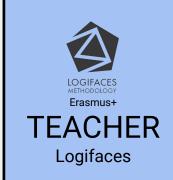
Individual / Pair work

Keywords: Probability, Favourable

outcome, Total outcome

614 - Pick one Block





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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 $\frac{2}{9} = 0.2 = 22.2\%$.
- 2. The 9 pcs Set contains one 222 piece, so the probability to pick the 222 piece from the set is $\frac{1}{9} = 0.1 = 11.1\%$.
- 3. The 9 pcs Set contains two 123 pieces and one 222 piece, so the probability to pick 123 or 222 is $\frac{2}{9} + \frac{1}{9} = \frac{3}{9} = \frac{1}{3} = 0.3 = 33.3\%$.

How many	1	1	1	1	1	2	2
Pieces	2 2	2	3	2	3	3	1 2

PRIOR KNOWLEDGE:

The traditional model of probability

RECOMMENDATION/COMMENTS