

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



MATHS / PROBABILITY



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER

Logifaces

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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 | | | | | | | |

PRIOR KNOWLEDGE:

The traditional model of probability

RECOMMENDATION/COMMENTS