



ST JOHN'S AMERICAN SCHOOL

PRESCHOOL, ELEMENTARY & JUNIOR HIGH SCHOOL

Math III Second Period

Activity 2.6.- Events mutually exclusive.

Instructions: Write the value corresponding to each box.

Sample space:

$$m = \{1, 2, 3, 4, 5 \text{ y } 6\}$$



Event **A** they are even:

$$A = \{2, 4 \text{ and } 6\} P(A) = \frac{\quad}{\quad}$$

Event **B** they are odd:

$$B = \{1, 3 \text{ and } 5\} P(B) = \frac{\quad}{\quad}$$

Event **C** are prime numbers:

$$C = \{2, 3 \text{ and } 5\} P(C) = \frac{\quad}{\quad}$$

Events **A** y **B** are **mutually exclusive**, because their values are not repeated:

$$P(A \text{ or } B) = P(A) + P(B) =$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

Events **A** y **C** They are **NOT mutually exclusive** because their values are repeated:

$$P(A \text{ and } C) = \frac{\quad}{\quad}$$

$$P(A \text{ or } C) = P(A) + P(C) - P(A \text{ and } C) =$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

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