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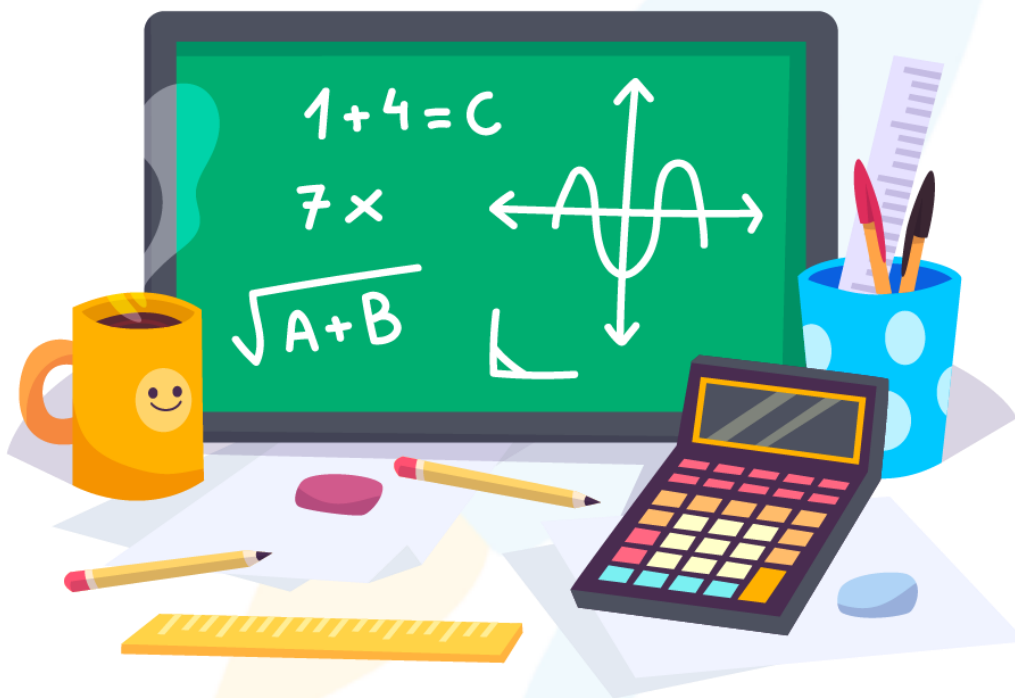
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RELATION AND FUNCTION WORKSHEET

1. If $A = \{x : x^2 - 7x + 12 = 0\}$, $B = \{2, 5\}$, $C = \{5, 7\}$, then $A \times (B \cap C)$ is _____.
2. Let $n(A) = 3$ and $n(B) = 5$. Then, the total number of non-empty relations that can be defined from A to B is _____.
3. If $A = \{2, 3, 4\}$, $B = \{a\}$ then $(A \times B) \cup (B \times A) =$ _____.



4. In the set of triangles "similarity" is _____ relationship.
(a) Reflexive (b) symmetric (c) transitive
(d) equivalence
5. If the relation $R: A \rightarrow B$, where $A = \{2, 3, 4\}$ and $B = \{3, 5\}$ is defined by $R = \{(x, y) : x < y, x \in A, y \in B\}$, then find R^{-1} .
6. If $F(x) = (x - 1) / (x + 1)$, then $-F(x) =$
(a) $-1/F(x)$ (b) $1/F(x)$ (c) $F(x)$
(d) $-F(-1/x)$

7. If $F(x) = x/(x - 1)$, $x \neq 1$, then $((\text{fofofo....of})(x))(\text{12times}) =$
8. If $F(x) = ax + b$, where a and b are integers, $f(2) = 6$ and $F(3) = 7$ then find the values of a and b .
9. If $f(x) = (3x + 2)/(5x - 2)$ then find the value of $f(2)$.
10. Let $F: \mathbb{R} \rightarrow \mathbb{R}$ $g: \mathbb{R} \rightarrow \mathbb{R}$ be two functions such that $f(x) = 2x - 3$, $g(x) = x + 5$. The function $(f \circ g)(x) =$ _____ .

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$\{(3, 5), (4, 5)\}$
2)	2^{14}
3)	$\{(2, a), (3, a), (4, a), (a, 2), (a, 3), (a, 4)\}$
4)	(d) equivalence
5)	$\{(3, 2), (3, 3), (3, 4), (5, 2), (5, 3), (5, 4)\}$
6)	(d) $-F'(-1/x)$

7)	\times
8)	$A = 1, b = 4$
9)	1
10)	$2x + 7$