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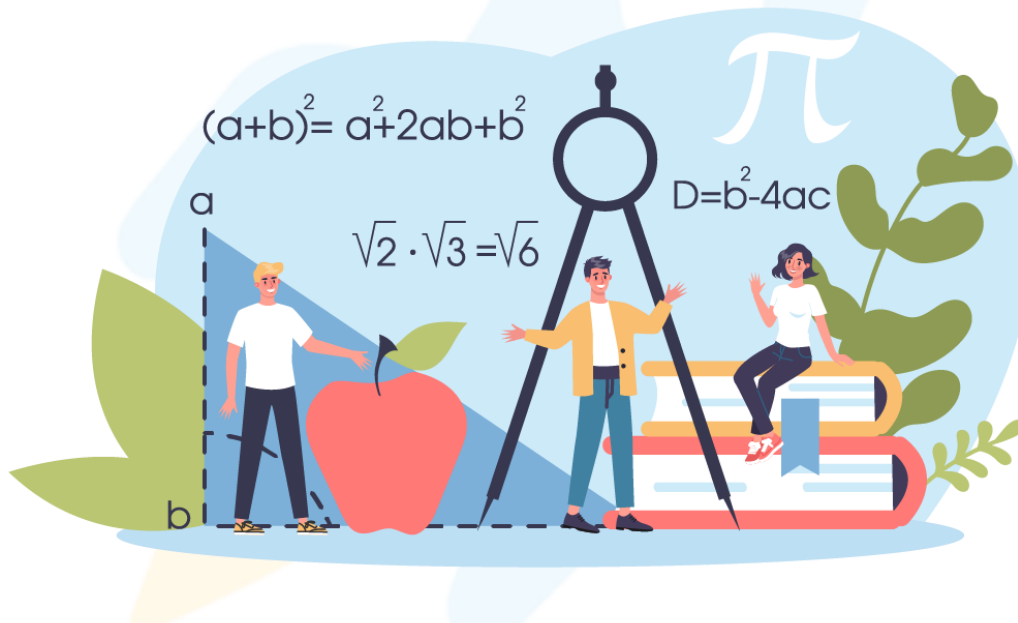
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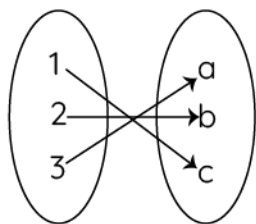
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RELATION AND FUNCTION WORKSHEET

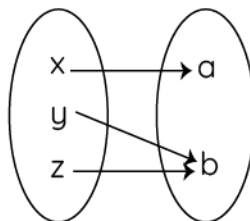
1. Given $x = \{(2, 7), (3, 9), (5, 13), (0, 3)\}$ be a function from \mathbb{Z} to \mathbb{Z} defined by $f(x) = ax + b$ for some integral a and b . What are the values of a and b ?
2. Let $F: \mathbb{R} \rightarrow \mathbb{R}$ be a function defined by $F(x) = 7x + 4$. Find the value of $F^{-1}(x)$.
3. If $F(x) = \sqrt{1 - x^2}$, then check if $f(xy) = f(x) \cdot f(y)$ is true or false?



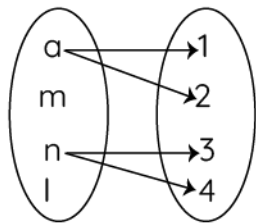
4. If $f^{-1}(x) = (3x + 2) / 5$ then find $f(x)$.
5. If $f(x) = (25 - x^2)^{1/2}$ then $f(\sqrt{5}) =$ _____.
6. If R is a relation from set A to the set B and S is a relation from B to C , then the relation $S \circ R$ is a relation from _____.



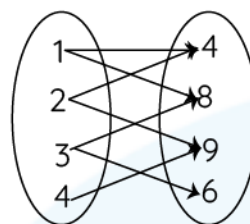
f



g



h



q

7. Which of the above is many to many relations?
(a) f (b) g (c) h (d) q
8. Which of the above is one to one relation?
(a) f (b) g (c) h (d) q
9. Which of the above is one to many relation?
(a) f (b) g (c) h (d) q
10. If $A = \{1, 2, 3\}$, the number of symmetric relations in A is
(a) 3 (b) 8 (c) 328 (d) 63

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"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)	$\bar{A} = 2, b = 3$
2)	$(x - 4) / 7$
3)	False
4)	$f(x) = (5x - 2) / 3$
5)	$2\sqrt{5}$
6)	Set A to set C

7)	(d) q
8)	(a) f
9)	(c) h
10)	(a) 3