



You

Just now



Question # 1 of 10 (Start time: 10:54:33 PM, 17 June 2022)

Given $A=\{1,2\}$ and $B=\{5,6,7\}$, then $B \times A =$ _____.

Select the correct option

 $\{(1,5), (1,6), (1,7), (2,5), (2,6)\}$  $\{(5,1), (5,2), (6,1), (6,2), (7,1), (7,2)\}$  $\{(5,1), (5,2), (6,1), (6,2), (7,1)\}$  $\{(1,5), (1,6), (1,7), (2,5), (2,6), (2,7)\}$

QEO

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Given $A=\{1,2\}$ and $B=\{5,6,7\}$, then $B \times A =$ _____.

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | $\{(1,5), (1,6), (1,7), (2,5), (2,6)\}$ |
| ☒ | $\{(5,1), (5,2), (6,1), (6,2), (7,1), (7,2)\}$ |
| ☐ | $\{(5,1), (5,2), (6,1), (6,2), (7,1)\}$ |
| ☐ | $\{(1,5), (1,6), (1,7), (2,5), (2,6), (2,7)\}$ |

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Yesterday, 22:55

MTH104:Quiz No. 2

Question # 1 of 10 (Start time: 10:40:46 PM, 17 June 2022)

If $A \times B = \{(11,7), (11,8), (12,7), (12,8), (13,7), (13,8)\}$, then $B =$ _____.

Select the correct option

- | | |
|----------------------------------|-----------------|
| ☐ | {11,12,13} |
| ☐ | {11,12} |
| ☐ | {7, 8,11,12,13} |
| ☒ | {7, 8} |

Q E O

Question # 6 of 10 (Start time: 10:49:11 PM, 17 June 2022)

Given $A=\{1,2\}$ and $B=\{5,6,7\}$, then $B \times A =$ _____

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | $\{(5,1), (5,2), (6,1), (6,2), (7,1), (7,2)\}$ |
| ☐ | $\{(1,5), (1,6), (1,7), (2,5), (2,6), (2,7)\}$ |
| ☐ | $\{(5,1), (5,2), (6,1), (6,2), (7,1)\}$ |
| ☐ | $\{(1,5), (1,6), (1,7), (2,5), (2,6)\}$ |

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22:55

Prime factorization of 78 is _____.

Select the correct option



3×26



$2 \times 3 \times 13$

QED



6×13



none of these



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Yesterday, 22:58



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MC220202002: RANA MUHAMMAD TOUQEER

MTH104:Quiz No. 2

Question # 6 of 10 (Start time: 10:58:38 PM, 17 June 2022)

Consider the relation $R = \{(1, y), (1, z), (3, y)\}$, then R^{-1} is _____.

Select the correct option

 $\{(y, 1), (z, 1), (y, 3)\}$  $\{(1, y), (1, z), (3, y)\}$ 

none



empty set

QED

Question # 9 of 10 (Start time: 11:00:59 PM, 17 June 2022)

Given $A=\{a,b\}$, then $A \times A =$ _____.

Select the correct option

☐	$\{(a,a), (b,a), (b,b)\}$
☐	$\{(a,a), (a,b), (b,a)\}$
☒	$\{(a,a), (a,b), (b,a), (b,b)\}$
☐	$\{(a,a), (a,b), (b,b)\}$

QED

Question # 8 of 10 (Start time: 11:00:10 PM, 17 June 2022)

Let $A = \{1, 2, 4\}$, and let R be a relation on A defined by " x divides y ", written $x|y$. Then _____

Select the correct option

☐	none
☐	$R = \{(1, 2), (1, 4), (2, 2), (2, 4), (4, 4)\}$
☐	$R = \{(1, 1), (1, 2), (1, 4), (2, 4)\}$
☒	$R = \{(1, 1), (1, 2), (1, 4), (2, 2), (2, 4), (4, 4)\}$

2 E 0

Question # 10 of 10 (Start time: 11:01:51 PM, 17 June 2022)

Let S be a nonempty set. A relation R on S is an equivalence relation if R is reflexive, symmetric and transitive.

Select the correct option

Given statement is true.

Q E O

Given statement is false.

Question # 1 of 10 (Start time: 11:15:04 PM, 17 June 2022)

Consider a given set A . A relation R on a set A is reflexive if $a R a$ for every $a \in A$, that is, $(a,a) \in R$ for every $a \in A$.

Select the correct option

Given statement is false.



Given statement is true.

☒ $A \subseteq A$
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Let $a = 2^3 \cdot 5^2 \cdot 7^3$ and $b = 2^5 \cdot 3^4 \cdot 5^6 \cdot 11^2$. Find $\gcd(a, b)$.

Select the correct option

☒	$\gcd(a, b) = 2^3 \cdot 5^2$
☐	$\gcd(a, b) = 2^3 \cdot 5^2 \cdot 7^3 \cdot 11^2$
☐	$\gcd(a, b) = 2^5 \cdot 5^2$
☐	none

Q E O

Question # 2 of 10 (Start time: 11:15:42 PM, 17 June 2022)

Let m be a fixed positive integer. Two integers a and b are said to be congruent (modulo m) if m divides $a - b$.

Select the correct option

☒	Given statement is true.	$a \equiv b \pmod m$
☐	Given statement is false.	

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Prime factorization of 90 is _____.

Select the correct option



$3 \times 3 \times 5 \times 2$

Q E O



$9 \times 5 \times 2$



$3 \times 15 \times 2$



none of these

Question # 5 of 10 (Start time: 11:17:53 PM, 17 June 2022)

Let $A = \{x, y\}$ and $B = \{ @, \$, \& \}$. Then number of elements in $A \times B$ is _____.

Select the correct option



5



6

$$2 \times 3 = 6$$



3



2

Question # 7 of 10 (Start time: 11:19:26 PM, 17 June 2022)

Let R be a relation on a set A with 3 elements. Then

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | $\text{transitive}(R) = R \cup R^2$ |
| ☐ | $\text{transitive}(R) = R \cup R \cup R$ |
| ☐ | none |
| ☒ | $\text{transitive}(R) = R \cup R^2 \cup R^3$ |

Q E O

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Question # 6 of 10 (Start time: 11:18:38 PM, 17 June 2022)

Prime factorization of 50 is _____.

Select the correct option

☐	10×5
☒	$2 \times 5 \times 5$
☐	2×25
☐	none of these

Q E D