Name

Prime Factorization - Is Number a Multiple of Both - From Values as Factors

1

$675 = 3^3 \cdot 5^2$

Is 675 a multiple of both 135 and 225?

$135 = 3^3 \cdot 5$
$225 = 3^2 \cdot 5^2$

is 675 a multiple of 135 and 225?

A	B
Yes	No

2

$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$

Is 420 a multiple of both 84 and 210?

$84 = 2^2 \cdot 3 \cdot 7$
$210 = 2 \cdot 3 \cdot 5 \cdot 7$

is 420 a multiple of 84 and 210?

A	B
Yes	No

3

$980 = 2^2 \cdot 5 \cdot 7^2$

Is 980 a multiple of both 220 and 490?

$220 = 2^2 \cdot 5 \cdot 11$
$490 = 2 \cdot 5 \cdot 7^2$

is 980 a multiple of 220 and 490?

A	B
Yes	No

4

$3430 = 2 \cdot 5 \cdot 7^3$

Is 3430 a multiple of both 686 and 490?

$686 = 2 \cdot 7^3$
$490 = 2 \cdot 5 \cdot 7^2$

is 3430 a multiple of 686 and 490?

A	B
Yes	No

5

$270 = 2 \cdot 3^3 \cdot 5$

Is 270 a multiple of both 126 and 90?

$126 = 2 \cdot 3^2 \cdot 7$
$90 = 2 \cdot 3^2 \cdot 5$

is 270 a multiple of 126 and 90?

A	B
Yes	No

6

$630 = 2 \cdot 3^2 \cdot 5 \cdot 7$

Is 630 a multiple of both 210 and 315?

$210 = 2 \cdot 3 \cdot 5 \cdot 7$
$315 = 3^2 \cdot 5 \cdot 7$

is 630 a multiple of 210 and 315?

A	B
Yes	No

7

$1250 = 2 \cdot 5^4$

Is 1250 a multiple of both 250 and 625?

$250 = 2 \cdot 5^3$
$625 = 5^4$

is 1250 a multiple of 250 and 625?

A	B
Yes	No

8

$700 = 2^2 \cdot 5^2 \cdot 7$

Is 700 a multiple of both 140 and 350?

$140 = 2^2 \cdot 5 \cdot 7$
$350 = 2 \cdot 5^2 \cdot 7$

is 700 a multiple of 140 and 350?

A	B
Yes	No