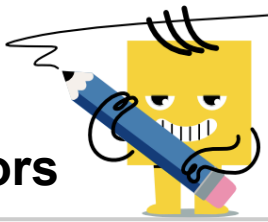
Name

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



1

$1225 = 5^2 \cdot 7^2$

Is 1225 a multiple of both 385 and 175?

$385 = 5 \cdot 7 \cdot 11$
$175 = 5^2 \cdot 7$

is 1225 a multiple of 385 and 175?

A	B
Yes	No

2

$735 = 3 \cdot 5 \cdot 7^2$

Is 735 a multiple of both 245 and 105?

$245 = 5 \cdot 7^2$
$105 = 3 \cdot 5 \cdot 7$

is 735 a multiple of 245 and 105?

A	B
Yes	No

3

$1029 = 3 \cdot 7^3$

Is 1029 a multiple of both 147 and 343?

$147 = 3 \cdot 7^2$
$343 = 7^3$

is 1029 a multiple of 147 and 343?

A	B
Yes	No

4

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

Is 126 a multiple of both 63 and 18?

$63 = 3^2 \cdot 7$
$18 = 2 \cdot 3^2$

is 126 a multiple of 63 and 18?

A	B
Yes	No

5

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

Is 84 a multiple of both 30 and 28?

$30 = 2 \cdot 3 \cdot 5$
$28 = 2^2 \cdot 7$

is 84 a multiple of 30 and 28?

A	B
Yes	No

6

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

Is 315 a multiple of both 45 and 105?

$45 = 3^2 \cdot 5$
$105 = 3 \cdot 5 \cdot 7$

is 315 a multiple of 45 and 105?

A	B
Yes	No

7

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

Is 315 a multiple of both 70 and 105?

$70 = 2 \cdot 5 \cdot 7$
$105 = 3 \cdot 5 \cdot 7$

is 315 a multiple of 70 and 105?

A	B
Yes	No

8

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

Is 126 a multiple of both 18 and 42?

$18 = 2 \cdot 3^2$
$42 = 2 \cdot 3 \cdot 7$

is 126 a multiple of 18 and 42?

A	B
Yes	No