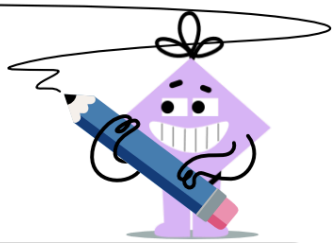
Name



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

1 $y = 2^3 \cdot 3$

$12 = 2^2 \cdot 3$
$8 = 2^3$

Is y a multiple of both 12 and 8?

is y a multiple of 12 and 8?

A	B
Yes	No

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

$20 = 2^2 \cdot 5$
$28 = 2^2 \cdot 7$

Is y a multiple of both 20 and 28?

is y a multiple of 20 and 28?

A	B
Yes	No

3 $r = 5 \cdot 7^3$

$70 = 2 \cdot 5 \cdot 7$
$343 = 7^3$

Is r a multiple of both 70 and 343?

is r a multiple of 70 and 343?

A	B
Yes	No

4 $d = 3 \cdot 5 \cdot 7^2$

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

Is d a multiple of both 245 and 105?

is d a multiple of 245 and 105?

A	B
Yes	No

5 $p = 5^3 \cdot 7$

$105 = 3 \cdot 5 \cdot 7$
$175 = 5^2 \cdot 7$

Is p a multiple of both 105 and 175?

is p a multiple of 105 and 175?

A	B
Yes	No

6 $z = 3^2 \cdot 5^2$

$45 = 3^2 \cdot 5$
$75 = 3 \cdot 5^2$

Is z a multiple of both 45 and 75?

is z a multiple of 45 and 75?

A	B
Yes	No

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

$45 = 3^2 \cdot 5$
$18 = 2 \cdot 3^2$

Is b a multiple of both 45 and 18?

is b a multiple of 45 and 18?

A	B
Yes	No

8 $c = 3^2 \cdot 5 \cdot 7$

$30 = 2 \cdot 3 \cdot 5$
$105 = 3 \cdot 5 \cdot 7$

Is c a multiple of both 30 and 105?

is c a multiple of 30 and 105?

A	B
Yes	No