



## Prime Factorization - Is Number a Multiple - From Variable as Factors

**1**

$m = 2^2 \cdot 5^2$       Is  $m$  a multiple of 30

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

is  $m$  a multiple of 30?

A	B
Yes	No

**2**

$x = 2 \cdot 3^2 \cdot 7$       Is  $x$  a multiple of 63

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

is  $x$  a multiple of 63?

A	B
Yes	No

**3**

$p = 2^2 \cdot 3^2$       Is  $p$  a multiple of 18

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

is  $p$  a multiple of 18?

A	B
Yes	No

**4**

$c = 2^2 \cdot 5^2$       Is  $c$  a multiple of 20

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

is  $c$  a multiple of 20?

A	B
Yes	No

**5**

$b = 2 \cdot 5 \cdot 7^2$       Is  $b$  a multiple of 182

$$182 = 2 \cdot 7 \cdot 13$$

is  $b$  a multiple of 182?

A	B
Yes	No

**6**

$b = 2 \cdot 3 \cdot 5^2$       Is  $b$  a multiple of 75

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

is  $b$  a multiple of 75?

A	B
Yes	No

**7**

$c = 2^2 \cdot 3 \cdot 7$       Is  $c$  a multiple of 12

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

is  $c$  a multiple of 12?

A	B
Yes	No

**8**

$n = 2 \cdot 3^2 \cdot 5$       Is  $n$  a multiple of 30

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

is  $n$  a multiple of 30?

A	B
Yes	No