



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

**1**  $m = 2 \cdot 5$

Is  $m$  a factor of 30

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

is  $m$  a factor of 30?

A	B
Yes	No

**2**  $p = 3 \cdot 7$

Is  $p$  a factor of 42

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

is  $p$  a factor of 42?

A	B
Yes	No

**3**  $y = 3^2$

Is  $y$  a factor of 30

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

is  $y$  a factor of 30?

A	B
Yes	No

**4**  $p = 2 \cdot 3$

Is  $p$  a factor of 30

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

is  $p$  a factor of 30?

A	B
Yes	No

**5**  $z = 2 \cdot 5$

Is  $z$  a factor of 42

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

is  $z$  a factor of 42?

A	B
Yes	No

**6**  $b = 2 \cdot 7$

Is  $b$  a factor of 42

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

is  $b$  a factor of 42?

A	B
Yes	No

**7**  $b = 2 \cdot 3$

Is  $b$  a factor of 30

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

is  $b$  a factor of 30?

A	B
Yes	No

**8**  $x = 3 \cdot 7$

Is  $x$  a factor of 42

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

is  $x$  a factor of 42?

A	B
Yes	No