



## Prime Factorization - Is Integer a Factor - From Value as Factors

**1**

$$350 = m \cdot r^2 \cdot z$$

Is 350 a factor of 1650

$$1650 = 2 \cdot 3 \cdot 5^2 \cdot 11$$

is 350 a factor of  
1650?

A

Yes

B

No

**2**

$$525 = b \cdot m^2 \cdot z$$

Is 525 a factor of 1650

$$1650 = 2 \cdot 3 \cdot 5^2 \cdot 11$$

is 525 a factor of  
1650?

A

Yes

B

No

**3**

$$735 = r \cdot c \cdot y^2$$

Is 735 a factor of 5390

$$5390 = 2 \cdot 5 \cdot 7^2 \cdot 11$$

is 735 a factor of  
5390?

A

Yes

B

No

**4**

$$441 = b^2 \cdot z^2$$

Is 441 a factor of 1470

$$1470 = 2 \cdot 3 \cdot 5 \cdot 7^2$$

is 441 a factor of  
1470?

A

Yes

B

No

**5**

$$294 = m \cdot r \cdot z^2$$

Is 294 a factor of 1470

$$1470 = 2 \cdot 3 \cdot 5 \cdot 7^2$$

is 294 a factor of  
1470?

A

Yes

B

No

**6**

$$735 = n \cdot z \cdot b^2$$

Is 735 a factor of 2310

$$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$$

is 735 a factor of  
2310?

A

Yes

B

No

**7**

$$210 = y \cdot x \cdot m \cdot p$$

Is 210 a factor of 2310

$$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$$

is 210 a factor of  
2310?

A

Yes

B

No

**8**

$$54 = r \cdot m^3$$

Is 54 a factor of 630

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

is 54 a factor of  
630?

A

Yes

B

No