



Math worksheet on 'Prime Factorization - Is Number a Factor - From Variable as Factors (Level 3)'. Part of a broader unit on 'Factoring and Greatest Common Factor - Advanced'

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1

$$m = 2^2 \cdot 3^2$$

Is m a factor of 180

$$180 = 2^2 \cdot 3^2 \cdot 5$$

is m a factor of 180?

a	b
Yes	No

2

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

Is x a factor of 2310

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

is x a factor of 2310?

a	b
Yes	No

3

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

Is n a factor of 1470

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

is n a factor of 1470?

a	b
Yes	No

4

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

Is z a factor of 990

$$990 = 2 \cdot 3^2 \cdot 5 \cdot 11$$

is z a factor of 990?

a	b
Yes	No

5

$$x = 2 \cdot 3 \cdot 5 \cdot 7$$

Is x a factor of 2310

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

is x a factor of 2310?

a	b
Yes	No

6

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

Is b a factor of 8085

$$8085 = 3 \cdot 5 \cdot 7^2 \cdot 11$$

is b a factor of 8085?

a	b
Yes	No

7

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

Is d a factor of 630

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

is d a factor of 630?

a	b
Yes	No