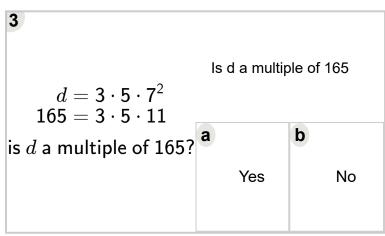# mobius

Math worksheet on *'Prime Factorization - Is Number a Multiple - From Variable as Factors (Level 2)'*. Part of a broader unit on *'Factoring and Lowest Common Multiple - Advanced'*
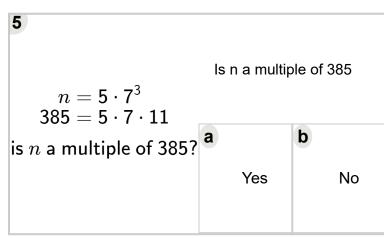
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1

Is c a multiple of 273

$$c = 3^2 \cdot 5 \cdot 7$$
$$273 = 3 \cdot 7 \cdot 13$$

is c a multiple of 273?

a	**b**
Yes	No

2

Is c a multiple of 105

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

is c a multiple of 105?

a	**b**
Yes	No

3

Is d a multiple of 165

$$d = 3 \cdot 5 \cdot 7^2$$
$$165 = 3 \cdot 5 \cdot 11$$

is d a multiple of 165?

a	**b**
Yes	No

4

Is b a multiple of 105

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

is b a multiple of 105?

a	**b**
Yes	No

5

Is n a multiple of 385

$$n = 5 \cdot 7^3$$
$$385 = 5 \cdot 7 \cdot 11$$

is n a multiple of 385?

a	**b**
Yes	No

6

Is n a multiple of 30

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

is n a multiple of 30?

a	**b**
Yes	No

7

Is z a multiple of 70

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

is z a multiple of 70?

a	**b**
Yes	No