



Prime Factorization - Is Integer a Factor of Both - From Values as Factors

1

$21 = \bigcirc \cdot \bigcirc$

Is 21 a factor of both 70 and 66?

$70 = 2 \cdot 5 \cdot 7$
 $66 = 2 \cdot 3 \cdot 11$

is 21 a factor of
70 and 66?

A	B
Yes	No

2

$6 = \bigcirc \cdot \bigcirc$

Is 6 a factor of both 70 and 165?

$70 = 2 \cdot 5 \cdot 7$
 $165 = 3 \cdot 5 \cdot 11$

is 6 a factor of
70 and 165?

A	B
Yes	No

3

$10 = \bigcirc \cdot \bigcirc$

Is 10 a factor of both 30 and 70?

$30 = 2 \cdot 3 \cdot 5$
 $70 = 2 \cdot 5 \cdot 7$

is 10 a factor of
30 and 70?

A	B
Yes	No

4

$15 = \bigcirc \cdot \bigcirc$

Is 15 a factor of both 70 and 110?

$70 = 2 \cdot 5 \cdot 7$
 $110 = 2 \cdot 5 \cdot 11$

is 15 a factor of
70 and 110?

A	B
Yes	No

5

$15 = \bigcirc \cdot \bigcirc$

Is 15 a factor of both 42 and 110?

$42 = 2 \cdot 3 \cdot 7$
 $110 = 2 \cdot 5 \cdot 11$

is 15 a factor of
42 and 110?

A	B
Yes	No

6

$14 = \bigcirc \cdot \bigcirc$

Is 14 a factor of both 105 and 66?

$105 = 3 \cdot 5 \cdot 7$
 $66 = 2 \cdot 3 \cdot 11$

is 14 a factor of
105 and 66?

A	B
Yes	No

7

$21 = \bigcirc \cdot \bigcirc$

Is 21 a factor of both 70 and 154?

$70 = 2 \cdot 5 \cdot 7$
 $154 = 2 \cdot 7 \cdot 11$

is 21 a factor of
70 and 154?

A	B
Yes	No

8

$10 = \bigcirc \cdot \bigcirc$

Is 10 a factor of both 105 and 66?

$105 = 3 \cdot 5 \cdot 7$
 $66 = 2 \cdot 3 \cdot 11$

is 10 a factor of
105 and 66?

A	B
Yes	No