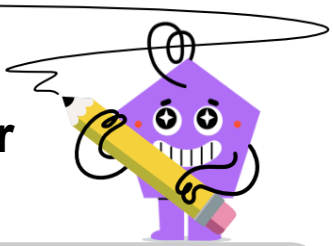
Name

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



1 $70 = x \cdot z \cdot b$

Is 70 a factor of both 462 and 1365?

$462 = 2 \cdot 3 \cdot 7 \cdot 11$
$1365 = 3 \cdot 5 \cdot 7 \cdot 13$

is 70 a factor of 462 and 1365?

A	B
Yes	No

2 $50 = m \cdot r^2$

Is 50 a factor of both 210 and 330?

$210 = 2 \cdot 3 \cdot 5 \cdot 7$
$330 = 2 \cdot 3 \cdot 5 \cdot 11$

is 50 a factor of 210 and 330?

A	B
Yes	No

3 $30 = p \cdot z \cdot x$

Is 30 a factor of both 770 and 1365?

$770 = 2 \cdot 5 \cdot 7 \cdot 11$
$1365 = 3 \cdot 5 \cdot 7 \cdot 13$

is 30 a factor of 770 and 1365?

A	B
Yes	No

4 $70 = n \cdot d \cdot c$

Is 70 a factor of both 462 and 390?

$462 = 2 \cdot 3 \cdot 7 \cdot 11$
$390 = 2 \cdot 3 \cdot 5 \cdot 13$

is 70 a factor of 462 and 390?

A	B
Yes	No

5 $8 = m^3$

Is 8 a factor of both 60 and 84?

$60 = 2^2 \cdot 3 \cdot 5$
$84 = 2^2 \cdot 3 \cdot 7$

is 8 a factor of 60 and 84?

A	B
Yes	No

6 $245 = p \cdot d^2$

Is 245 a factor of both 490 and 735?

$490 = 2 \cdot 5 \cdot 7^2$
$735 = 3 \cdot 5 \cdot 7^2$

is 245 a factor of 490 and 735?

A	B
Yes	No

7 $105 = n \cdot p \cdot c$

Is 105 a factor of both 210 and 1155?

$210 = 2 \cdot 3 \cdot 5 \cdot 7$
$1155 = 3 \cdot 5 \cdot 7 \cdot 11$

is 105 a factor of 210 and 1155?

A	B
Yes	No

8 $30 = n \cdot b \cdot y$

Is 30 a factor of both 210 and 330?

$210 = 2 \cdot 3 \cdot 5 \cdot 7$
$330 = 2 \cdot 3 \cdot 5 \cdot 11$

is 30 a factor of 210 and 330?

A	B
Yes	No