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

Learn online:

app.mobius.academy/math/units/factoring_and_greatest_common_factor_advanced/

1

$210 = y \cdot n \cdot b \cdot m$
$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$
$2730 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 13$

is 210 a factor of 2310 and 2730?

Is 210 a factor of both 2310 and 2730?

a Yes **b** No

2

$100 = p^2 \cdot b^2$
$300 = 2^2 \cdot 3 \cdot 5^2$
$700 = 2^2 \cdot 5^2 \cdot 7$

is 100 a factor of 300 and 700?

Is 100 a factor of both 300 and 700?

a Yes **b** No

3

$135 = b^3 \cdot z$
$378 = 2 \cdot 3^3 \cdot 7$
$990 = 2 \cdot 3^2 \cdot 5 \cdot 11$

is 135 a factor of 378 and 990?

Is 135 a factor of both 378 and 990?

a Yes **b** No

4

$490 = z \cdot p \cdot n^2$
$3234 = 2 \cdot 3 \cdot 7^2 \cdot 11$
$2730 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 13$

is 490 a factor of 3234 and 2730?

Is 490 a factor of both 3234 and 2730?

a Yes **b** No

5

$441 = c^2 \cdot m^2$
$630 = 2 \cdot 3^2 \cdot 5 \cdot 7$
$1386 = 2 \cdot 3^2 \cdot 7 \cdot 11$

is 441 a factor of 630 and 1386?

Is 441 a factor of both 630 and 1386?

a Yes **b** No

6

$140 = z^2 \cdot b \cdot r$
$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$
$1540 = 2^2 \cdot 5 \cdot 7 \cdot 11$

is 140 a factor of 420 and 1540?

Is 140 a factor of both 420 and 1540?

a Yes **b** No

7

$686 = y \cdot p^3$
$2058 = 2 \cdot 3 \cdot 7^3$
$3430 = 2 \cdot 5 \cdot 7^3$

is 686 a factor of 2058 and 3430?

Is 686 a factor of both 2058 and 3430?

a Yes **b** No