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'*

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1

$490 = c \cdot d \cdot z^2$

Is 490 a factor of both 3234 and 2730?

$3234 = 2 \cdot 3 \cdot 7^2 \cdot 11$
$2730 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 13$

is 490 a factor of 3234 and 2730?

a	b
Yes	No

2

$90 = d \cdot n^2 \cdot m$

Is 90 a factor of both 630 and 990?

$630 = 2 \cdot 3^2 \cdot 5 \cdot 7$
$990 = 2 \cdot 3^2 \cdot 5 \cdot 11$

is 90 a factor of 630 and 990?

a	b
Yes	No

3

$315 = r^2 \cdot p \cdot z$

Is 315 a factor of both 630 and 3465?

$630 = 2 \cdot 3^2 \cdot 5 \cdot 7$
$3465 = 3^2 \cdot 5 \cdot 7 \cdot 11$

is 315 a factor of 630 and 3465?

a	b
Yes	No

4

$225 = n^2 \cdot b^2$

Is 225 a factor of both 630 and 1650?

$630 = 2 \cdot 3^2 \cdot 5 \cdot 7$
$1650 = 2 \cdot 3 \cdot 5^2 \cdot 11$

is 225 a factor of 630 and 1650?

a	b
Yes	No

5

$126 = d \cdot y^2 \cdot b$

Is 126 a factor of both 2310 and 4095?

$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$
$4095 = 3^2 \cdot 5 \cdot 7 \cdot 13$

is 126 a factor of 2310 and 4095?

a	b
Yes	No

6

$84 = y^2 \cdot p \cdot x$

Is 84 a factor of both 420 and 924?

$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$
$924 = 2^2 \cdot 3 \cdot 7 \cdot 11$

is 84 a factor of 420 and 924?

a	b
Yes	No

7

$40 = p^3 \cdot d$

Is 40 a factor of both 420 and 660?

$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$
$660 = 2^2 \cdot 3 \cdot 5 \cdot 11$

is 40 a factor of 420 and 660?

a	b
Yes	No