Math worksheet on *'Prime Factorization - Is Integer a Factor of Both - From Values as Factors (Level 2)'*. Part of a broader unit on *'Factoring and Greatest Common Factor - Practice'*

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1

$175 = c^2 \cdot m$

Is 175 a factor of both 350 and 525?

$350 = 2 \cdot 5^2 \cdot 7$
$525 = 3 \cdot 5^2 \cdot 7$

is 175 a factor of 350 and 525?

a	b
Yes	No

2

$30 = x \cdot n \cdot y$

Is 30 a factor of both 770 and 910?

$770 = 2 \cdot 5 \cdot 7 \cdot 11$
$910 = 2 \cdot 5 \cdot 7 \cdot 13$

is 30 a factor of 770 and 910?

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

$50 = y \cdot p^2$

Is 50 a factor of both 210 and 825?

$210 = 2 \cdot 3 \cdot 5 \cdot 7$
$825 = 3 \cdot 5^2 \cdot 11$

is 50 a factor of 210 and 825?

a	b
Yes	No

5

$70 = n \cdot d \cdot c$

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

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

$147 = d \cdot r^2$

Is 147 a factor of both 294 and 735?

$294 = 2 \cdot 3 \cdot 7^2$
$735 = 3 \cdot 5 \cdot 7^2$

is 147 a factor of 294 and 735?

a	b
Yes	No