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

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1

$1225 = 5^2 \cdot 7^2$

$2450 = 2 \cdot 5^2 \cdot 7^2$

$3675 = 3 \cdot 5^2 \cdot 7^2$

Is 1225 a factor of both 2450 and 3675?

is 1225 a factor of 2450 and 3675?

a	b
Yes	No

2

$1715 = 5 \cdot 7^3$

$3430 = 2 \cdot 5 \cdot 7^3$

$5145 = 3 \cdot 5 \cdot 7^3$

Is 1715 a factor of both 3430 and 5145?

is 1715 a factor of 3430 and 5145?

a	b
Yes	No

3

$150 = 2 \cdot 3 \cdot 5^2$

$1050 = 2 \cdot 3 \cdot 5^2 \cdot 7$

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

Is 150 a factor of both 1050 and 1650?

is 150 a factor of 1050 and 1650?

a	b
Yes	No

4

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

$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$

$3822 = 2 \cdot 3 \cdot 7^2 \cdot 13$

Is 735 a factor of both 2310 and 3822?

is 735 a factor of 2310 and 3822?

a	b
Yes	No

5

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

$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$

$1950 = 2 \cdot 3 \cdot 5^2 \cdot 13$

Is 525 a factor of both 2310 and 1950?

is 525 a factor of 2310 and 1950?

a	b
Yes	No

6

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

$5390 = 2 \cdot 5 \cdot 7^2 \cdot 11$

$2730 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 13$

Is 294 a factor of both 5390 and 2730?

is 294 a factor of 5390 and 2730?

a	b
Yes	No

7

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

$8085 = 3 \cdot 5 \cdot 7^2 \cdot 11$

$9555 = 3 \cdot 5 \cdot 7^2 \cdot 13$

Is 294 a factor of both 8085 and 9555?

is 294 a factor of 8085 and 9555?

a	b
Yes	No