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

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1

$1470 = 2 \cdot 3 \cdot 5 \cdot 7^2$

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

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

Is 1470 a multiple of both 210 and 294?

is 1470 a multiple of 210 and 294?

a	b
Yes	No

2

$2625 = 3 \cdot 5^3 \cdot 7$

$375 = 3 \cdot 5^3$

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

Is 2625 a multiple of both 375 and 525?

is 2625 a multiple of 375 and 525?

a	b
Yes	No

3

$567 = 3^4 \cdot 7$

$81 = 3^4$

$189 = 3^3 \cdot 7$

Is 567 a multiple of both 81 and 189?

is 567 a multiple of 81 and 189?

a	b
Yes	No

4

$120 = 2^3 \cdot 3 \cdot 5$

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

$40 = 2^3 \cdot 5$

Is 120 a multiple of both 60 and 40?

is 120 a multiple of 60 and 40?

a	b
Yes	No

5

$700 = 2^2 \cdot 5^2 \cdot 7$

$140 = 2^2 \cdot 5 \cdot 7$

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

Is 700 a multiple of both 140 and 350?

is 700 a multiple of 140 and 350?

a	b
Yes	No

6

$4802 = 2 \cdot 7^4$

$1274 = 2 \cdot 7^2 \cdot 13$

$2401 = 7^4$

Is 4802 a multiple of both 1274 and 2401?

is 4802 a multiple of 1274 and 2401?

a	b
Yes	No

7

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

$686 = 2 \cdot 7^3$

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

Is 3430 a multiple of both 686 and 490?

is 3430 a multiple of 686 and 490?

a	b
Yes	No