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

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1

Is z a multiple of 625

$z = 5^4 \cdot 7$
$625 = 5^4$

is z a multiple of 625?

a	b
Yes	No

2

Is y a multiple of 90

$y = 2 \cdot 3^3 \cdot 5$
$90 = 2 \cdot 3^2 \cdot 5$

is y a multiple of 90?

a	b
Yes	No

3

Is z a multiple of 490

$z = 2 \cdot 3 \cdot 5 \cdot 7^2$
$490 = 2 \cdot 5 \cdot 7^2$

is z a multiple of 490?

a	b
Yes	No

4

Is r a multiple of 735

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

is r a multiple of 735?

a	b
Yes	No

5

Is x a multiple of 1225

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

is x a multiple of 1225?

a	b
Yes	No

6

Is d a multiple of 189

$d = 3^3 \cdot 5 \cdot 7$
$189 = 3^3 \cdot 7$

is d a multiple of 189?

a	b
Yes	No

7

Is n a multiple of 525

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

is n a multiple of 525?

a	b
Yes	No