Math worksheet on *'Prime Factorization - Is Number a Multiple of Both - From Variables as Factors (Level 1)'*. Part of a broader unit on *'Factoring and Lowest Common Multiple - Practice'*

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1

$n = 2 \cdot 3 \cdot 5$

Is n a multiple of both 15 and 10?

$15 = 3 \cdot 5$
$10 = 2 \cdot 5$

is n a multiple of 15 and 10?

a	b
Yes	No

2

$c = 5 \cdot 7^2$

Is c a multiple of both 15 and 49?

$15 = 3 \cdot 5$
$49 = 7^2$

is c a multiple of 15 and 49?

a	b
Yes	No

3

$m = 3 \cdot 5 \cdot 7$

Is m a multiple of both 35 and 21?

$35 = 5 \cdot 7$
$21 = 3 \cdot 7$

is m a multiple of 35 and 21?

a	b
Yes	No

4

$b = 3 \cdot 5^2$

Is b a multiple of both 33 and 25?

$33 = 3 \cdot 11$
$25 = 5^2$

is b a multiple of 33 and 25?

a	b
Yes	No

5

$d = 5 \cdot 7^2$

Is d a multiple of both 35 and 49?

$35 = 5 \cdot 7$
$49 = 7^2$

is d a multiple of 35 and 49?

a	b
Yes	No

6

$b = 5^2 \cdot 7$

Is b a multiple of both 25 and 35?

$25 = 5^2$
$35 = 5 \cdot 7$

is b a multiple of 25 and 35?

a	b
Yes	No

7

$r = 3^2 \cdot 5$

Is r a multiple of both 9 and 15?

$9 = 3^2$
$15 = 3 \cdot 5$

is r a multiple of 9 and 15?

a	b
Yes	No