Name _____

1 $b = 3 \cdot 5 \cdot 7^3$

$735 = 3 \cdot 5 \cdot 7^2$
$1029 = 3 \cdot 7^3$

is b a multiple of 735 and 1029?

Is b a multiple of both 735 and 1029?

A	B
Yes	No

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

$84 = 2^2 \cdot 3 \cdot 7$
$294 = 2 \cdot 3 \cdot 7^2$

is z a multiple of 84 and 294?

Is z a multiple of both 84 and 294?

A	B
Yes	No

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

$140 = 2^2 \cdot 5 \cdot 7$
$40 = 2^3 \cdot 5$

is n a multiple of 140 and 40?

Is n a multiple of both 140 and 40?

A	B
Yes	No

4 $n = 2^2 \cdot 5^3$

$60 = 2^2 \cdot 3 \cdot 5$
$250 = 2 \cdot 5^3$

is n a multiple of 60 and 250?

Is n a multiple of both 60 and 250?

A	B
Yes	No

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

$459 = 3^3 \cdot 17$
$315 = 3^2 \cdot 5 \cdot 7$

is x a multiple of 459 and 315?

Is x a multiple of both 459 and 315?

A	B
Yes	No

6 $p = 2 \cdot 3^3 \cdot 7$

$90 = 2 \cdot 3^2 \cdot 5$
$126 = 2 \cdot 3^2 \cdot 7$

is p a multiple of 90 and 126?

Is p a multiple of both 90 and 126?

A	B
Yes	No

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

$1225 = 5^2 \cdot 7^2$
$735 = 3 \cdot 5 \cdot 7^2$

is z a multiple of 1225 and 735?

Is z a multiple of both 1225 and 735?

A	B
Yes	No

8 $z = 2 \cdot 3 \cdot 5^2 \cdot 7$

$330 = 2 \cdot 3 \cdot 5 \cdot 11$
$150 = 2 \cdot 3 \cdot 5^2$

is z a multiple of 330 and 150?

Is z a multiple of both 330 and 150?

A	B
Yes	No