1 $250 = p \cdot r^3$

$750 = 2 \cdot 3 \cdot 5^3$
$1750 = 2 \cdot 5^3 \cdot 7$

is 250 a factor of 750 and 1750?

Is 250 a factor of both 750 and 1750?

A	B
Yes	No

2 $210 = d \cdot r \cdot z \cdot p$

$6006 = 2 \cdot 3 \cdot 7 \cdot 11 \cdot 13$
$13090 = 2 \cdot 5 \cdot 7 \cdot 11 \cdot 17$

is 210 a factor of 6006 and 13090?

Is 210 a factor of both 6006 and 13090?

A	B
Yes	No

3 $100 = b^2 \cdot c^2$

$300 = 2^2 \cdot 3 \cdot 5^2$
$700 = 2^2 \cdot 5^2 \cdot 7$

is 100 a factor of 300 and 700?

Is 100 a factor of both 300 and 700?

A	B
Yes	No

4 $1225 = r^2 \cdot b^2$

$2450 = 2 \cdot 5^2 \cdot 7^2$
$3675 = 3 \cdot 5^2 \cdot 7^2$

is 1225 a factor of 2450 and 3675?

Is 1225 a factor of both 2450 and 3675?

A	B
Yes	No

5 $525 = r \cdot x^2 \cdot p$

$1050 = 2 \cdot 3 \cdot 5^2 \cdot 7$
$5775 = 3 \cdot 5^2 \cdot 7 \cdot 11$

is 525 a factor of 1050 and 5775?

Is 525 a factor of both 1050 and 5775?

A	B
Yes	No

6 $60 = m^2 \cdot p \cdot d$

$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$
$660 = 2^2 \cdot 3 \cdot 5 \cdot 11$

is 60 a factor of 420 and 660?

Is 60 a factor of both 420 and 660?

A	B
Yes	No

7 $56 = p^3 \cdot z$

$420 = 2^2 \cdot 3 \cdot 5 \cdot 7$
$924 = 2^2 \cdot 3 \cdot 7 \cdot 11$

is 56 a factor of 420 and 924?

Is 56 a factor of both 420 and 924?

A	B
Yes	No

8 $315 = c^2 \cdot p \cdot x$

$2310 = 2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$
$1638 = 2 \cdot 3^2 \cdot 7 \cdot 13$

is 315 a factor of 2310 and 1638?

Is 315 a factor of both 2310 and 1638?

A	B
Yes	No