Math worksheet on *'Prime Factorization - Is Number a Multiple of Both - From Values as Factors (Level 2)'*. Part of a broader unit on *'Factoring and Venn Factor Diagrams - Practice'*

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1

$686 = 2 \cdot 7^3$

$245 = 5 \cdot 7^2$

$98 = 2 \cdot 7^2$

Is 686 a multiple of both 245 and 98?

is 686 a multiple of 245 and 98?

a	b
Yes	No

2

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

$18 = 2 \cdot 3^2$

$42 = 2 \cdot 3 \cdot 7$

Is 126 a multiple of both 18 and 42?

is 126 a multiple of 18 and 42?

a	b
Yes	No

3

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

$70 = 2 \cdot 5 \cdot 7$

$105 = 3 \cdot 5 \cdot 7$

Is 525 a multiple of both 70 and 105?

is 525 a multiple of 70 and 105?

a	b
Yes	No

4

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

$147 = 3 \cdot 7^2$

$98 = 2 \cdot 7^2$

Is 294 a multiple of both 147 and 98?

is 294 a multiple of 147 and 98?

a	b
Yes	No

5

$225 = 3^2 \cdot 5^2$

$75 = 3 \cdot 5^2$

$45 = 3^2 \cdot 5$

Is 225 a multiple of both 75 and 45?

is 225 a multiple of 75 and 45?

a	b
Yes	No

6

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

$175 = 5^2 \cdot 7$

$105 = 3 \cdot 5 \cdot 7$

Is 525 a multiple of both 175 and 105?

is 525 a multiple of 175 and 105?

a	b
Yes	No

7

$1029 = 3 \cdot 7^3$

$147 = 3 \cdot 7^2$

$343 = 7^3$

Is 1029 a multiple of both 147 and 343?

is 1029 a multiple of 147 and 343?

a	b
Yes	No