

Prime factors (numbers under 500)

Grade 5 Factoring Worksheet

Example: $24 = 2 \times 2 \times 2 \times 3$ (Not prime)

List the prime factors for each number. Is the number prime?

1) $360 =$ _____

2) $321 =$ _____

3) $107 =$ _____

4) $119 =$ _____

5) $206 =$ _____

6) $313 =$ _____

7) $221 =$ _____

8) $222 =$ _____

9) $37 =$ _____

10) $243 =$ _____

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Example: $24 = 2 \times 2 \times 2 \times 3$ (Not prime)

List the prime factors for each number. Is the number prime?

1) $360 = 2 \times 2 \times 2 \times 3 \times 3 \times 5$ (No)

2) $321 = 3 \times 107$ (No)

3) $107 = 107$ (Yes)

4) $119 = 7 \times 17$ (No)

5) $206 = 2 \times 103$ (No)

6) $313 = 313$ (Yes)

7) $221 = 13 \times 17$ (No)

8) $222 = 2 \times 3 \times 37$ (No)

9) $37 = 37$ (Yes)

10) $243 = 3 \times 3 \times 3 \times 3 \times 3$ (No)