

Prime factors (numbers under 50)

Grade 4 Factoring Worksheet

Example: $24 = 2 \times 2 \times 2 \times 3$ (No - not prime)

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

1) $12 =$ _____ 2) $44 =$ _____

3) $33 =$ _____ 4) $35 =$ _____

5) $31 =$ _____ 6) $36 =$ _____

7) $17 =$ _____ 8) $23 =$ _____

9) $22 =$ _____ 10) $26 =$ _____

11) $42 =$ _____ 12) $7 =$ _____

13) $2 =$ _____ 14) $28 =$ _____

15) $9 =$ _____ 16) $16 =$ _____

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Example: $24 = 2 \times 2 \times 2 \times 3$ (No - not prime)

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

1) $12 = 2 \times 2 \times 3$ (No)

2) $44 = 2 \times 2 \times 11$ (No)

3) $33 = 3 \times 11$ (No)

4) $35 = 5 \times 7$ (No)

5) $31 = 31$ (Yes)

6) $36 = 2 \times 2 \times 3 \times 3$ (No)

7) $17 = 17$ (Yes)

8) $23 = 23$ (Yes)

9) $22 = 2 \times 11$ (No)

10) $26 = 2 \times 13$ (No)

11) $42 = 2 \times 3 \times 7$ (No)

12) $7 = 7$ (Yes)

13) $2 = 2$ (Yes)

14) $28 = 2 \times 2 \times 7$ (No)

15) $9 = 3 \times 3$ (No)

16) $16 = 2 \times 2 \times 2 \times 2$ (No)