

Factoring numbers into primes factors (<1,000)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $58 =$ _____ 2) $30 =$ _____

3) $516 =$ _____ 4) $97 =$ _____

5) $76 =$ _____ 6) $964 =$ _____

7) $87 =$ _____ 8) $124 =$ _____

9) $198 =$ _____ 10) $307 =$ _____

11) $42 =$ _____ 12) $79 =$ _____

13) $47 =$ _____ 14) $504 =$ _____

15) $991 =$ _____ 16) $57 =$ _____

17) $278 =$ _____ 18) $61 =$ _____

19) $813 =$ _____ 20) $704 =$ _____

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Factor the following numbers into prime factors.

Is the number prime?

1) $58 = 2 \times 29$ (No) 2) $30 = 2 \times 3 \times 5$ (No)

3) $516 = 2 \times 2 \times 3 \times 43$ (No) 4) $97 = 97$ (Yes)

5) $76 = 2 \times 2 \times 19$ (No) 6) $964 = 2 \times 2 \times 241$ (No)

7) $87 = 3 \times 29$ (No) 8) $124 = 2 \times 2 \times 31$ (No)

9) $198 = 2 \times 3 \times 3 \times 11$ (No) 10) $307 = 307$ (Yes)

11) $42 = 2 \times 3 \times 7$ (No) 12) $79 = 79$ (Yes)

13) $47 = 47$ (Yes) 14) $504 = 2 \times 2 \times 2 \times 3 \times 3 \times 7$ (No)

15) $991 = 991$ (Yes) 16) $57 = 3 \times 19$ (No)

17) $278 = 2 \times 139$ (No) 18) $61 = 61$ (Yes)

19) $813 = 3 \times 271$ (No) 20) $704 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 11$ (No)