



Factoring numbers into primes factors (1–200)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $12 =$ _____ 2) $55 =$ _____

3) $27 =$ _____ 4) $75 =$ _____

5) $32 =$ _____ 6) $64 =$ _____

7) $130 =$ _____ 8) $98 =$ _____

9) $56 =$ _____ 10) $122 =$ _____

11) $113 =$ _____ 12) $186 =$ _____

13) $29 =$ _____ 14) $33 =$ _____

15) $72 =$ _____ 16) $24 =$ _____

17) $164 =$ _____ 18) $45 =$ _____

19) $124 =$ _____ 20) $156 =$ _____



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Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $12 = 2 \times 2 \times 3$ (No) 2) $55 = 5 \times 11$ (No)

3) $27 = 3 \times 3 \times 3$ (No) 4) $75 = 3 \times 5 \times 5$ (No)

5) $32 = 2 \times 2 \times 2 \times 2 \times 2$ (No) 6) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$ (No)

7) $130 = 2 \times 5 \times 13$ (No) 8) $98 = 2 \times 7 \times 7$ (No)

9) $56 = 2 \times 2 \times 2 \times 7$ (No) 10) $122 = 2 \times 61$ (No)

11) $113 = 113$ (Yes) 12) $186 = 2 \times 3 \times 31$ (No)

13) $29 = 29$ (Yes) 14) $33 = 3 \times 11$ (No)

15) $72 = 2 \times 2 \times 2 \times 3 \times 3$ (No) 16) $24 = 2 \times 2 \times 2 \times 3$ (No)

17) $164 = 2 \times 2 \times 41$ (No) 18) $45 = 3 \times 3 \times 5$ (No)

19) $124 = 2 \times 2 \times 31$ (No) 20) $156 = 2 \times 2 \times 3 \times 13$ (No)