



Factoring numbers into primes factors (<500)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $27 =$ _____ 2) $56 =$ _____

3) $13 =$ _____ 4) $140 =$ _____

5) $55 =$ _____ 6) $72 =$ _____

7) $111 =$ _____ 8) $202 =$ _____

9) $225 =$ _____ 10) $89 =$ _____

11) $163 =$ _____ 12) $350 =$ _____

13) $414 =$ _____ 14) $95 =$ _____

15) $40 =$ _____ 16) $81 =$ _____

17) $67 =$ _____ 18) $41 =$ _____

19) $29 =$ _____ 20) $121 =$ _____



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Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $27 = 3 \times 3 \times 3$ (No) 2) $56 = 2 \times 2 \times 2 \times 7$ (No)

3) $13 = 13$ (Yes) 4) $140 = 2 \times 2 \times 5 \times 7$ (No)

5) $55 = 5 \times 11$ (No) 6) $72 = 2 \times 2 \times 2 \times 3 \times 3$ (No)

7) $111 = 3 \times 37$ (No) 8) $202 = 2 \times 101$ (No)

9) $225 = 3 \times 3 \times 5 \times 5$ (No) 10) $89 = 89$ (Yes)

11) $163 = 163$ (Yes) 12) $350 = 2 \times 5 \times 5 \times 7$ (No)

13) $414 = 2 \times 3 \times 3 \times 23$ (No) 14) $95 = 5 \times 19$ (No)

15) $40 = 2 \times 2 \times 2 \times 5$ (No) 16) $81 = 3 \times 3 \times 3 \times 3$ (No)

17) $67 = 67$ (Yes) 18) $41 = 41$ (Yes)

19) $29 = 29$ (Yes) 20) $121 = 11 \times 11$ (No)