

Factoring numbers into primes factors (<500)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $35 =$ _____ 2) $81 =$ _____

3) $59 =$ _____ 4) $210 =$ _____

5) $325 =$ _____ 6) $56 =$ _____

7) $273 =$ _____ 8) $153 =$ _____

9) $104 =$ _____ 10) $97 =$ _____

11) $385 =$ _____ 12) $393 =$ _____

13) $48 =$ _____ 14) $414 =$ _____

15) $149 =$ _____ 16) $481 =$ _____

17) $44 =$ _____ 18) $281 =$ _____

19) $86 =$ _____ 20) $199 =$ _____

Factoring numbers into primes factors (<500)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $35 = 5 \times 7$ (No) 2) $81 = 3 \times 3 \times 3 \times 3$ (No)

3) $59 = 59$ (Yes) 4) $210 = 2 \times 3 \times 5 \times 7$ (No)

5) $325 = 5 \times 5 \times 13$ (No) 6) $56 = 2 \times 2 \times 2 \times 7$ (No)

7) $273 = 3 \times 7 \times 13$ (No) 8) $153 = 3 \times 3 \times 17$ (No)

9) $104 = 2 \times 2 \times 2 \times 13$ (No) 10) $97 = 97$ (Yes)

11) $385 = 5 \times 7 \times 11$ (No) 12) $393 = 3 \times 131$ (No)

13) $48 = 2 \times 2 \times 2 \times 2 \times 3$ (No) 14) $414 = 2 \times 3 \times 3 \times 23$ (No)

15) $149 = 149$ (Yes) 16) $481 = 13 \times 37$ (No)

17) $44 = 2 \times 2 \times 11$ (No) 18) $281 = 281$ (Yes)

19) $86 = 2 \times 43$ (No) 20) $199 = 199$ (Yes)