Factoring numbers into primes factors (1–400)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.
Is the number prime?

1) 23 = _____

2) 36 = _____

3) 62 = _____

4) 241 = _____

5) 267 = _____

6) 79 = _____

7) 12 = _____

8) 30 = _____

9) 347 = _____

10) 32 = _____

11) 171 = _____

12) 127 = _____

13) 107 = _____

14) 324 = _____

15) 382 = _____

16) 35 = _____

17) 89 = _____

18) 218 = _____

19) 48 = _____

20) 115 = _____

Factoring numbers into primes factors (1–400)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.
Is the number prime?

1) 23 = 23 (Yes)

2) 36 = 2×2×3×3 (No)

3) 62 = 2×31 (No)

4) 241 = 241 (Yes)

5) 267 = 3×89 (No)

6) 79 = 79 (Yes)

7) 12 = 2×2×3 (No)

8) 30 = 2×3×5 (No)

9) 347 = 347 (Yes)

10) 32 = 2×2×2×2×2 (No)

11) 171 = 3×3×19 (No)

12) 127 = 127 (Yes)

13) 107 = 107 (Yes)

14) 324 = 2×2×3×3×3×3 (No)

15) 382 = 2×191 (No)

16) 35 = 5×7 (No)

17) 89 = 89 (Yes)

18) 218 = 2×109 (No)

19) 48 = 2×2×2×2×3 (No)

20) 115 = 5×23 (No)