

Name _____

Time: _____

Date ___ / ___ / ___

Score _____

PrimeFactor (Number Dojo Level 175) Middle School Worksheet Set D

Instructions: Give yourself 5 minutes to complete as many problems as you can. Score this worksheet like a Number Sense test, giving yourself 5 points for every correct answer, less 4 points for every skipped or incorrect answer. High score is a 200.

- | | |
|--|--|
| 1) The largest prime factor of 216 is _____
2) The largest prime factor of 29^2 is _____
3) The largest prime factor of 294 is _____
4) 102 has _____ unique, prime factor(s)
5) 231 has _____ unique, prime factor(s)
6) 68 has _____ unique, prime factor(s)
7) 240 has _____ unique, prime factor(s)
8) 70 has _____ unique, prime factor(s)
9) 130 has _____ unique, prime factor(s)
10) 128 has _____ unique, prime factor(s)
11) 78 has _____ unique, prime factor(s)
12) 165 has _____ unique, prime factor(s)
13) 60 has _____ unique, prime factor(s)
14) 48 has _____ unique, prime factor(s)
15) 126 has _____ unique, prime factor(s)
16) 140 has _____ unique, prime factor(s)
17) 243 has _____ unique, prime factor(s)
18) 338 has _____ unique, prime factor(s)
19) 63 has how many distinct prime divisors? ____
20) The sum of the prime factors of 44 is _____ | 21) What is the largest prime divisor of 145? _____
22) The smallest prime divisor of 189 is _____
23) The sum of the prime factors of 84 is _____
24) The number of prime factors of 28 is _____
25) 2016 has how many distinct prime divisors? ____
26) 75 has how many distinct prime divisors? ____
27) The largest prime factor of 185 is _____
28) 56 has _____ positive prime divisors
29) The largest prime divisor of 65 is _____
30) The sum of the prime factors of 105 is ____
31) The sum of the prime factors of 42 is _____
32) The largest prime factor of 285 is _____
33) The sum of the prime factors of 110 is ____
34) The largest prime factor of 210 is _____
35) The largest prime factor of 355 is _____
36) The largest prime factor of 399 is _____
37) The number of prime factors of 285 is ____
38) The number of prime factors of 210 is ____
39) The largest prime factor of 111 is _____
40) The sum of the prime factors of 210 is ____ |
|--|--|

- - - - - Fold the bottom portion under - - - - -

Answer Key

- | | | | |
|-------|-------|--------|--------|
| 1) 3 | 9) 3 | 17) 1 | 25) 3 |
| 2) 29 | 10) 1 | 18) 2 | 33) 18 |
| 3) 7 | 11) 3 | 19) 2 | 34) 7 |
| 4) 3 | 12) 3 | 20) 13 | 35) 71 |
| 5) 3 | 13) 3 | 21) 29 | 36) 19 |
| 6) 2 | 14) 2 | 22) 3 | 37) 3 |
| 7) 3 | 15) 3 | 23) 12 | 38) 4 |
| 8) 3 | 16) 3 | 24) 2 | 39) 37 |
| | | | 40) 17 |