

Art Of Doing Math

Number Sense - The First Fifty

These questions represent Number Sense questions from the past twelve MathLeague contests.

This is a mental math speed test. Scratchwork highly discouraged. Accuracy first.

Please fold over.

No.	Practice Question	Answer	Solution
1-1	$2022 + 23 + 22 =$		2067
2-1	The tens digit of 732861 is ____.		6
3-1	$8 + 3 \times 8 =$		32
4-1	$924 + 265 =$		1189
5-1	$58 \div 4$ has a remainder of ____.		2
6-1	$3 + 26 + 24 + 12 =$		65
7-1	$50 \times 60 =$		3000
8-1	The product of 9 and 77 is ____.		693
9-1	$414 \div 9 =$		46
10-1	Estimate $9 + 91 + 919 + 9191 =$		9700, 10721
11-1	$626 - 437 - 30 =$		159
12-1	$69 \times 11 =$		759
13-1	The remainder of $1251 \div 17$ is ____.		10
14-1	$18^2 =$		324
15-1	$10 + 13 + 27 =$		50
16-1	$24 \times 75 =$		1800
17-1	$1914 - 1636 =$		278
18-1	DLXVII in Arabic numerals is ____.		567
19-1	$29 \times 31 =$		899
20-1	Estimate $201 \times 99 =$		18904, 20894

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No.	Practice Question	Answer	Solution
21-1	$8 \times 28 \div 4 =$		56
22-1	$6/27$ in lowest terms is ____ (fraction).		$2/9$
23-1	$24^2 =$		576
24-1	$4/9 - 1/3 =$		$1/9$
25-1	If 1 furlong is equal to 0.125 of a mile, then 32 furlongs are equal to ____ miles.		4
26-1	$20 \times 25 =$		500
27-1	Which is larger, $5/8$ or $2/9$? ____ (fraction).		$5/8$
28-1	The GCD of 13 and 48 is ____.		1
29-1	$15 \div 27 =$		25
30-1	Estimate $95 \times 20 \times 17 =$		125, 139
31-1	$71^2 =$		5041
32-1	$0.628 \times 10^2 =$		62.8
33-1	$27 \times 38 =$		1026
34-1	84 days is ____ weeks.		12
35-1	How many multiples of 4 are between 57 and 65?		2
36-1	$4 + 13 + 22 + 31 + 40 =$		110
37-1	The LCM of 30 and 10 is ____.		30
38-1	The sum of the prime numbers between 20 and 36 is ____.		83
39-1	$74 \times 99 =$		7326
40-1	Estimate the square root of 3969 =		60, 66

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41-1	$5^8 =$		390625
42-1	The remainder of $704 \div 11$ is ____.		0
43-1	$38^2 - 20^2 =$		1044
44-1	$107 \times 105 =$		11235
45-1	$64 \times 101 =$		6464
46-1	What is the perimeter of a hexagon with side length of 14?		70
47-1	What is the square root of 400?		20
48-1	The sixth term in the arithmetic sequence of 15, 18, 21, 24, ... is ____.		30
49-1	$4/9 + 9/4 =$		$2 \frac{25}{36}$
50-1	Estimate $352017 \times 48 =$		16051975, 17741657