

## Sprint Test (Grade 4-5)

Name:	Correct:	× 5 =
Grade:	Incorrect:	× -1 =
Teacher:	Scorer's Initials _____ Scorer's Initials _____	Total =

- Each correct answer carries 5 points and incorrect loses 1.
- No penalty for skipped question.
- Choose the “Letter A or B or C or D or E” for the answer.
- Choose E only if you cannot determine a uniquely correct answer among A, B, C and D.

1. What is $25 - 50 + 75 - 100 + 125$ ?	
A. 50            B. 75            C. - 50            D. - 75            E. Other	
2. What is $2 \times 4 \times 6 \times 8 \times 10$ ?	
A. 3884            B. 3868            C. 3852            D. 3800            E. Other	
3. Compute $15 + 3 \times 4 - 7$ .	
A. - 54            B. 65            C. 6            D. 20            E. Other	
4. What is the sum of smallest one digit prime number and smallest two digit prime number?	
A. 13            B. 19            C. 18            D. 22            E. Other	
5. Compute $55 \div 11 \times 22 \div 2$	
A. 55            B. 10            C. 110            D. 22            E. Other	
6. If it is currently 9:40, what time will it be 400 minutes from now?	
A. 3:20            B. 4:00            C. 4:20            D. 4:40            E. Other	
7. A box contains 20 yellow marbles, 20 white marbles and 20 purple marbles. What is the minimum number of marbles that one must be pulled from the box to guarantee that one marble of each color is chosen?	
A. 59            B. 3            C. 41            D. 22            E. Other	
8. In the above case: what is the minimum number of marbles that one must be pulled from the box to guarantee that three marbles of the same color are chosen?	
A. 59            B. 7            C. 4            D. 41            E. Other	

9. James walked $\frac{3}{5}$ of the way home from school in 12 minutes. If he continues to walk at the same rate, how many more minutes will it take James to arrive home? A. 14      B. 8      C. 12      D. 10      E. Other	
10. If $x \oplus y$ is defined as $x^2 - y^2$ , what is the value of $3 \oplus (2 \oplus 1)$ ? A. -1      B. 0      C. 1      D. 2      E. Other	
11. What is the total surface area of a cube with edge length 4? A. 64      B. 24      C. 216      D. 96      E. Other	
12. What is the sum of all the integers between -10.1 and 4.9? A. -45      B. -56      C. -51      D. 45      E. Other	
13. Four consecutive odd numbers add up to 96. What is the largest of these numbers? A. 21      B. 23      C. 25      D. 27      E. Other	
14. The five-digit number A6B6A is divisible by 9 and 4. When it is divided by 5, the remainder is 4. What is the sum of two "A"s and "B"? A. 13      B. 23      C. 25      D. 17      E. Other	
15. September 25, 2035, will occur on a Tuesday. On which day of the week will August 25, 2035 occur? A. Thursday      B. Monday      C. Saturday      D. Friday      E. Other	
16. The sum of five "pintos" and one "chitos" is 87. The sum of one "pintos" and five "chitos" is 99. What is the sum of two "pintos" and two "chitos"? A. 62      B. 55      C. 31      D. 82      E. Other	
17. The length of a rectangle is $3x + 10$ feet and its width is $x + 12$ feet. If the perimeter of the rectangle is 76 feet, how many square feet are in the area of the rectangle? A. 410      B. 352      C. 504      D. 448      E. Other	
18. Ram had twice as many apples as David, but then gave David 16 apples so they could both have the same number. How many apples does each person have now that they have the same number? A. 24      B. 64      C. 32      D. 16      E. Other	
19. Round tables seating 8 people and rectangular tables seating 12 people are being used at a banquet for 8 <sup>th</sup> graders. The ratio of round tables to rectangular tables is 2 to 1. How many tables are used to seat 336 students at the banquet, if no table has an empty seat? A. 12      B. 48      C. 24      D. 36      E. Other	
20. Joel buys an equal number of 50¢ and 75¢ candy bars and spends \$10, not including tax. How many candy bars did Joel buy altogether? A. 8      B. 12      C. 16      D. 20      E. Other	

## Number Sense Qualifying Test (Grade 4-5)

Name:	Correct:	× 4 =
Grade:	Incorrect:	× -2 =
Teacher:	Scorer's Initials _____ Scorer's Initials _____	Total =

1	18 + 23 = _____	18	Convert XVI to Arab Numeral = _____
2	$9 \times 12 =$ _____	19	$11.1 \times 160 =$
3	Round 1456 to the nearest ten. _____	20*	Estimate: 61% of 241 =
4	$29 \times 8 =$	21	Largest two digit prime number is _____
5	Remainder when 29 is divided by 8. _____	22	GCF of 24 and 16 is _____
6	$50 \times 284 =$	23	20 cm = _____ m
7	How many of the following numbers are even? 1, 4, 7, 16, 11, 21, 14 _____	24	$92 \times 97 =$
8	$1 \times 100 + 8 \times 1 + 1 \times 10 =$ _____	25	$25 \times 36 =$
9	$702 - 498 =$	26	\$4.75 = _____ quarter(s)
10*	Estimate: $7821 \div 21 =$	27	$0.1 \times 0.2 =$ _____
11	$156 \div 13 =$	28	$\frac{2}{9} + \frac{4}{7} =$
12	What is the hundredths digit of 1234.567? _____	29	$12 + 24 + 36 + 48 =$
13	$11 - 21 - 12 + 31 =$	30*	Estimate: What is $1723 + 9857 + 1049$ ? _____
14	An octagon has _____ sides	31	0.13 = _____%
15	$24 \div 6 \times 8 \div 2 =$	32	$198 + 399 + 99 =$
16	Number of Diagonals in a pentagon is: _____	33	The sum of two prime numbers is 49. Their product is: _____
17	$82 \times 88 =$	34	80% = _____ fraction

35	$14^2 =$	43	Area of a circle with diameter 8 unit = _____
36	$1/3 =$ _____ %	44	XI + XIV = _____ (Arab numeral)
37	$2.3 \times 10^{-2} =$	45	$\sqrt[2]{1156} =$
38	$16.5 + 8.8 - 1.3 =$	46	How many prime numbers between 30 and 45 inclusive? _____
39	$3 \div 0.01 =$	47	LCM of 36 and 99 is _____
40*	Estimate: $147 + 361 + 582 =$ _____	48	$\sqrt[3]{42875} =$
41	$303 \times 14 =$	49	III $\times$ 642 =
42	$\frac{2}{9} + \frac{3}{5} =$ _____ (fraction)	50*	Estimate: $251 \times 64 \times 4 =$

## ANSWER KEYS TO 4-5 GRADE SPRINT TEST

[A detailed explanation for answers will be uploaded later. Watch out our website]

1	B	6	C	11	D	16	A
2	E	7	C	12	A	17	B
3	D	8	B	13	D	18	E (48)
4	A	9	B	14	E (15)	19	D
5	A	10	B	15	C	20	C

## ANSWER KEYS TO 4-5 GRADE NUMBER SENSE TEST

Every 10<sup>th</sup> problem, marked with ‘\*’, is an estimation problem. That means, the answer has to be an integer and it should be within the range of  $\pm 5\%$  of the original answer; hence [95% of original – 105% of original].

Please refer <http://mathleague.org/nsrules.php> for more number sense rules.

1	41	21	97	41	4242
2	108	22	8	42	$\frac{37}{45}$
3	1460	23	.2	43	$16\pi$
4	232	24	8924	44	25
5	5	25	900	45	34
6	14200	26	19	46	4
7	3	27	.02	47	396
8	118	28	$\frac{50}{63}$	48	35
9	204	29	120	49	71262
10*	[354 – 391]	30*	[11998 – 13260]	50*	[61044 – 67469]
11	12	31	13		
12	6	32	696		
13	9	33	94		
14	8	34	$\frac{4}{5}$		
15	16	35	196		
16	5	36	$(\frac{100}{3}, 33\frac{1}{3})$		
17	7216	37	.023		
18	16	38	24		
19	1776	39	300		
20*	[140 – 154]	40*	[1036 – 1144]		