

JUNIOR SHOOTOUT NUMBER SENSE

2002-2003 E 1st Alternate

- (1) $5 \times 234 =$ _____.
- (2) $1288 \div 4 =$ _____.
- (3) $672 =$ _____ (Roman Numeral).
- (4) The thousandths place in 1245.9036 is _____.
- (5) $1988 - 897 =$ _____.
- (6) $230 + 245 + 260 =$ _____.
- (7) $16^2 =$ _____.
- (8) The sum of two numbers is 46 and their difference is 8. The larger of the two numbers is _____.
- (9) Round 674 to the nearest multiple of 20. _____.
- *(10) $798 + 895 + 1499 =$ _____.
- (11) 739 \div 8 has a remainder of _____.
- (12) $25 \times 97 =$ _____.
- (13) Write the number "seventy three and twenty seven hundredths". _____.
- (14) If $\alpha \times \alpha \times \alpha = 64$, $\alpha =$ _____.
- (15) The sum of the even natural numbers less than 10 is _____.
- (16) The denominator in $\frac{3}{4}$ is _____.
- (17) The minute hand on a clock travels from the 5 to the 20. How many seconds is that? _____.
- (18) $15 \times 42 =$ _____.
- (19) $7 + 17 + \dots + 47 =$ _____.
- *(20) $9 \times 19 \times 29 =$ _____.
- (21) $2.538 \div .6 =$ _____.
- (22) 9 gallons = _____ pints.
- (23) Your bill is \$12.41. Your change from a \$20 bill is \$ _____.
- (24) $\frac{3}{4} + \frac{4}{5} + \frac{5}{6} =$ _____ (Improper Fraction).
- (25) $202 \times 404 =$ _____.
- (26) $\frac{17}{25} =$ _____ (Decimal).
- (27) $12 \times 234 =$ _____.
- (28) 12.4% = _____ (Fraction).
- (29) $4 + 8 + 16 \div 4 - 2 =$ _____.
- *(30) $26 \times 47 + 27 \times 64 =$ _____.
- (31) The GCF of 192 and 216 is _____.
- (32) The LCM of 9, 10, and 12 is _____.
- (33) The largest of .01, $\frac{1}{11}$, and $\frac{2}{23}$ is _____.
- (34) $.04 \times .05 =$ _____.
- (35) The ratio of 7 nickels to 5 quarters is _____.
- (36) Reduce $\frac{60}{75}$ to lowest terms. _____.
- (37) 1.02 meters = _____ centimeters.
- (38) If $\frac{n}{14} = \frac{64}{112}$, $n =$ _____.
- (39) The largest multiple of 17 less than 300 is _____.
- *(40) $409631 \div 197 =$ _____.
- (41) If $A = 4$, $B = 6$, and $C = 3$, $AB - BC + AC =$ _____.
- (42) $43 \times 47 =$ _____.

- (43) How many hours will a person driving a car at 50 mph have to drive in order to cover 480 miles?
_____ hours.
- (44) A square with an area of 25 square feet has a diagonal of _____ feet.
- (45) $72\frac{4}{5} \times \frac{3}{4} =$ _____.
- (46) How many elements are in the set of prime numbers less than 10? _____.
- (47) $405_7 + 163_7 =$ _____₇.
- (48) The cube root of 729 is _____.
- (49) $12 \times 14 + 16 \times 12 =$ _____.
- *(50) $49^3 =$ _____.
- (51) If $4n - 2n = 64$, $n =$ _____.
- (52) $4\frac{1}{3} \div 2\frac{1}{2} =$ _____.
- (53) The surface area of a rectangular box 4" x 5" x 5" is _____ square inches.
- (54) The sum of the members of the Pythagorean triple with the smallest such sum is _____.
- (55) $\{4, 5, 6\} \cap \{6, 7, 8\} = \{ \text{_____} \}$.
- (56) The next term in the sequence 2, 4, 8, 16, 32, 64, ... is _____.
- (57) $\sqrt{441} =$ _____.
- (58) $7\frac{2}{3} \times 8\frac{2}{3} =$ _____.
- (59) $100111_2 =$ _____₄.
- *(60) $4.1 \times 493 \times 5 =$ _____.
- (61) What is the area of a rhombus with diagonals of length 7 and 12? _____.
- (62) $(4 - 7) \times (3 - 6) =$ _____.
- (63) $1.004 \times 1.004 =$ _____.
- (64) $.45555\dots =$ _____ (Fraction).
- (65) The negative reciprocal of $\frac{3}{8}$ is _____.
- (66) 10% of 9 is 30% of _____.
- (67) $2^{-1} + 3^0 + 4^1 =$ _____.
- (68) The slope of a line perpendicular to the line $3x + 4y = 17$ is _____.
- (69) A cube has how many edges? _____.
- *(70) $\sqrt{41123} =$ _____.
- (71) $907 \div 101$ has a remainder of _____.
- (72) $62^2 =$ _____.
- (73) If Sam needs 310 lbs of concrete for a project and concrete is sold in 50 lb bags, how many bags does Sam need to buy? _____.
- (74) 18 is _____% of 144.
- (75) $125 \times 216 = 150 \times$ _____.
- (76) If $3x - 7 < 32$, $x <$ _____.
- (77) What is the probability of a sum of 3 or more on the roll of two dice? _____.
- (78) $42^2 - 22^2 =$ _____.
- (79) $999 \times 997 =$ _____.
- *(80) $\frac{493}{7} \times \frac{699}{5} =$ _____.

JUNIOR SHOOTOUT NUMBER SENSE ANSWER SHEET

2002-2003 E 1st Alternate

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|------------------|-----------------------|----------------------|----------------------|
| (1) 1170 | (23) 7.59 | (43) $9\frac{3}{5}$ | (61) 42 |
| (2) 322 | (24) $\frac{143}{60}$ | (44) $5\sqrt{2}$ | (62) 9 |
| (3) DCLXXII | (25) 81608 | (45) $54\frac{3}{5}$ | (63) 1.008016 |
| (4) 3 | (26) .68 | (46) 4 | (64) $\frac{41}{90}$ |
| (5) 1091 | (27) 2808 | (47) 601 | (65) $-\frac{8}{3}$ |
| (6) 735 | (28) $\frac{31}{250}$ | (48) 9 | (66) 3 |
| (7) 256 | (29) 14 | (49) 360 | (67) $5\frac{1}{2}$ |
| (8) 27 | (30) 2803 - 3097 | (50) 111767 - 123531 | (68) $\frac{4}{3}$ |
| (9) 680 | (31) 24 | (51) 32 | (69) 12 |
| (10) 3033 - 3351 | (32) 180 | (52) $\frac{26}{15}$ | (70) 193 - 212 |
| (11) 3 | (33) $\frac{1}{11}$ | (53) 130 | (71) 99 |
| (12) 2425 | (34) .002 | (54) 12 | (72) 3844 |
| (13) 73.27 | (35) $\frac{7}{25}$ | (55) 6 | (73) 7 |
| (14) 4 | (36) $\frac{4}{5}$ | (56) 128 | (74) 12.5 |
| (15) 20 | (37) 102 | (57) 21 | (75) 180 |
| (16) 4 | (38) 8 | (58) $66\frac{4}{9}$ | (76) 13 |
| (17) 900 | (39) 289 | (59) 213 | (77) $\frac{35}{36}$ |
| (18) 630 | (40) 1976 - 2183 | (60) 9602 - 10611 | (78) 1280 |
| (19) 135 | (41) 18 | | (79) 996003 |
| (20) 4712 - 5206 | (42) 2021 | | (80) 9354 - 10338 |
| (21) 4.23 | | | |
| (22) 72 | | | |