## Middle School Number Sense Exam $020,\,9/26/17$

(1) 1	$1 \times 7.639 =$	(decimal)
(2) 7	/8% =	(decimal)
(3)	$\frac{76}{3} = $	(mixed number)
(4) 5	513 + 768 =	
(5) 4	$8048 \div 3 = $	
(6) 3	36 + 4(3 + 7) =	
(7) (	0.44 =	(fraction)
(8) 1	38 ÷ 23 =	
(9) 3	$61 \times 11 =$	
*(10)	$7462 + 891 + 16121 + 82 = \_$	
(11)	Which is larger: $-\frac{3}{11}, -\frac{5}{18}$ ?	
(12)	18 meters =	Hectometers
(13)	$88 \times 12\frac{1}{2} = $	
(14)	$44 \times 52 - 44 \times 32 = \_$	
(15)	$36 \times 33\frac{1}{3} = $	
(16)	DLXII =	(Arabic Numeral)
(17)	$12.5 \times .24 =$	
(18)	$31 + 9(24 \div 6) =$	
(19)	$12 \times 707 =$	
*(20)	$\frac{3}{7} \times 37761 =$	
(21) co	If 8 bags of chips cost \$17.92, osts \$	then 1 bag of chips
(22)	The mode of 77, 7, 71, 17, 11, 7	7, and 777 is
(23) \$	The cost of driving 175 miles	at \$0.30 per mile is
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(24) The mode of $29, 9, 92, 19, 99, 93$ , and $19$ is		
(25) The GCD of 18, 30, and 40 is		
(26) $6\frac{2}{3} + 7\frac{10}{21} = $ (mixed number)		
(27) $21 \div \frac{1}{7} = $		
(28) The additive inverse of $-6.8$ is		
(29) $35 \div 1.25 =$		
*(30) 28% of 3869 is		
(31) The complement of a 29° angle is °		
(32) The GCF of 16 and 56 is		
(33) $92 \times 91 =$		
(34) The selling price of a \$64 item with a 100% markup is \$		
(35) IF $2x + 5 = 17$ , then $25(2x + 5) = $		
(36) 20% of 180 is		
(37) The circumference of a circle with area $196\pi$ sq. in. is in.		
(38) 8 is % of 24		
(39) MM $-$ CC $=$ (Roman Numeral)		
*(40) $28^2 + 29^2 + 30^2 + 31^2 + 32^2 = $		
(41) $98 \times 89 =$		
<ul><li>(42) The product of the LCM and the GCF of</li><li>4 and 32 is</li></ul>		
(43) The area of a square with side $3\sqrt{3}$ ft is sq. ft.		
(44) $231_9 = \10$		

(45) If $f9x = \frac{2}{x} + \frac{3}{x}$ , then $f\left(\frac{1}{6}\right) = $	(64) If $3\sqrt{x} + 9 = 10$ , then $x =$
(46) $7 \times 143 =$	(65) 15 miles per hour = $\_$ feet per second
(47) $88 \times 95 =$	(66) $\sqrt{1\frac{7}{9}} = $ (mixed number)
(48) $37_{10} = $ 7	(67) $56 \times 625 =$
(49) The sum of the interior angles of a dodecagon is ° *(50) $\pi^6 - \pi^5 =$	(68) If it takes Julie 2 hours to do the same job that takes Billy 5 hours to do, how long would it take them if they work together? hours
(50) $\pi$ $\pi$ $\pi$ $=$ (51) $7\frac{2}{3} \times 8\frac{2}{3} =$ (mixed number) (52) The 40th term of the sequence	(69) $.272727 = $ (fraction) *(70) $13 \times 15 \times 18 =$
$(52)$ The 40th term of the sequence $-2, 1, 4, \dots$ is	(71) The number of positive integral divisors less than
(53) The number of unique diagonals that can be drawn in a 16-gon is	18 that are relatively prime to 18 is   (72) $997 \times 994 = $
(54) $1022_3 = \10$ (55) $61 \times 59 =$	(73) The area of a right triangle with hypotenuse 25 and one leg of 24 is
(56) $(4^3 + 6^3 + 10^3) \div 3$ has a remainder of	(74) $994 \times 998 =$
(57) $\sqrt{2\frac{14}{25}} = $ (mixed number)	(75) The surface area of a sphere with radius 3 ft. is $\pi$ sq. ft.
(58) If $32_b = 20_{10}$ , then $b = $ (59) $3367 \times 54 = $	(76) The probability of getting exactly 2 heads when flipping four fair coins is
*(60) $6.22 \times 1.6 \times 9.5 =$ (61) If (8,3) is on the line $3x - 5y = C$ , where C is a	(77) The product of the roots of $6x^2 + x - 5 = 0$ is
constant, then the <i>x</i> -intercept is	(78) $18 \times 36 =$
(62) If $\sqrt{98}$ simplifies to $a\sqrt{b}$ , then $a = $	(79) The discriminate of $x^2 + 9x + 20 = 0$ is
(63) If $7x^2 - 3 = 109$ and $x > 0$ , then $x = $	*(80) 7400 inches = feet