University Interscholastic League 2019 – 2020 Elementary Number Sense Test A

	2019 - 2020	Elementary Number S	Sense Test A		
Contes	stant's Number		Final		
			2 nd 1 st		
·		Unfold This Sheet Told to Begin	•	Score	Initials
problei SOLVI problei	ons: Do not turn this page until the person conductions. Solve accurately and quickly as many as you ED MENTALLY. Make no calculations with papm. Problems marked with a (*) require approximate of the exact answer will be scored correct; all other	can in the order in whi er and pencil. Write on the integral answers; ar	ich they appear. ALL PRO only the answer in the space ny answer to a starred prob	OBLEMS All e provided a	RE TO BE t the end of each
The pe	rson conducting this contest should explain these of S	directions to the contest top – Wait for Signal			
(1)	202 + 219 =	*(20)	192034 ÷ 248 =		
(2)	97 – 34 =		121 × 50 =		
(3)	202 × 4 =		$\frac{17}{20} - \frac{11}{20} =$		
(4)	2020 ÷ 5 =				
(5)	11 × 15 =	(23)	$2\frac{1}{2}$ feet =		inches
(6)	132 ÷ 12 =	(24)	12 ÷ 4 × 2 =		
(7)	219 + 220 =	(25)	$\frac{3}{50} =$		decimal
(8)	19 × 5 × 4 =	· ´ ´	_	_	
(9)	Which digit is in the ten-thousandths place in	(26)	Which is larger: $\frac{9}{14}$ or	$\frac{2}{3}$?	
	16239.07485 ?	(27)	75 × 24 =		
*(10)	2020 × 11 – 2020 =	(28)	55 percent =	(common fraction
(11)	14 × 16 =	(29)	The sum of the two sma	llest prime r	numbers is
(12)	9 × 12 – 12 × 6 =	*(30)	555 × 1790 + 202 =		
		(31)	$7\frac{1}{2}\% = $	(c	ommon fraction)
(13)	13764.08256 rounded to the hundredths place is		The sum of the prime fa		
(14)	DLV =(Arabic nur	(-)			
(15)	There are even numbers between 4 ar	(33)	$\frac{7}{20} + \frac{11}{20} =$	((common fraction
(16)	25 × 14 =		$\frac{13}{10} - \frac{26}{100} =$		
(17)	$7 \times 10^2 + 4 \times 10^{-1} + 3 \times 10^{-2} = $ (dec	cimal) (35)	Four is to seven as twen		
(18)	21 × 101 =	(36)	If 18 ♠ cost 75¢, then 6		

(37) The least common multiple of 36 and 24 is _____

(19) 4192 ÷ 5 has a remainder of _____

(38)	125 × 40 =	*(60)	$\sqrt{231361} = $
(39)	$(25 \times 25 \times 25) \div 8$ has a remainder of	(61)	(16) + (-6) ÷ (-2) =
*(40)	$6\frac{1}{4} \times 31980 = $	(62)	$14^2 - 9^2 = $
(41)	If $z = 4.5$, then $20 - 4z = $	(63)	$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} =$
(42) (43)	$\frac{2}{3} - \frac{1}{6} =$ (common fraction) A number, x, added to 11 equals 15. What is x?	(64)	The number of edges on a cube is
		(65)	$4^2 + 12^2 = $
(44)	The area of a rectangle is 288 and the length of one side is 72. The length of the other side is	(66)	If a pair of dice is thrown, the probability that the sum of the dice is a multiple of 2 is
(45)	72 inches =feet	(67)	If the largest angle of an isosceles triangle is 140°,
(46)	21 ² =		what is the measure of one of the other angles? $__$ °
(47)	(1 1 (1)	(68)	$\sqrt{169} + \sqrt{225} = $
	$6\frac{1}{4} - 4\frac{1}{2} = \underline{\qquad} \text{(mixed number)}$	(69)	123 (Base 5) =(Base 10)
(48)	37 (Base 8) =Base 2	*(70)	175 ² =
(49)	What is the number, k , in the sequence: 1, 1, 2, k , 5, 8,?	(71)	$88 \times \left(\frac{1}{8} + \frac{3}{8}\right) = \underline{\hspace{1cm}}$
*(50)	$49^4 \div 24^2 =$	(72)	The perimeter of an equilateral triangle is $3\frac{3}{4}$.
(51)	$2 \times 1\frac{1}{4} + \frac{1}{2} =$		What is the length of one side?
(52)	102 × 103 =	(73)	Twenty-five quarters = \$
(53)	$\frac{9}{11} + \frac{11}{9} = \underline{\qquad} \text{(mixed number)}$	(74)	If $18 + 3x > 12$, then $x > $
(54)	If set $A = \{B, E, A, U, M, O, N, T\}$ and set	(75)	160 × 12 =
(6.)	$B = \{T, E, X, L, I, N, E\}$, then the number of	(76)	If a black bag contains 12 blue, 8 red, and 16 green
	elements in A \cap B is		marbles, what is the probability of randomly drawing
(55)	If three times a number added to 9 is the same as 24,		a red marble?
	then the number is	(77)	$44\frac{4}{9}\% \text{ of } 36 \text{ is } $
(56)	44 × 37 ÷ 4 =	(**)	9
(57)	If $5x - 18 = 102$, then $x = $	(78)	If the angles of a quadrilateral are 15°, 143°, and 82°,
(58)	What is the volume of a rectangular box with sides,		what is the measure of the fourth angle?°
	25 cm, 12 cm and 5 cm?cm ³	(79)	208 × 15 =
(59)	A circle has a circumference of 20π . What is the circle's radius?	*(80)	225 × 202 × 98 =

2019 – 2020 University Interscholastic League Elementary Number Sense Test A – Key

- (1) 421
- (2) 63
- (3) 808
- (4) 404
- (5) 165
- (6) 11
- (7) 439
- (8) 380
- (9) 8
- *(10) 19190 21210
- (11) 224
- (12) 36
- $(13) \quad 13764.08; \\ 13764 \frac{2}{25}; \\ \frac{344102}{25}$
- (14) 555
- (15) 5
- (16) 350
- (17) 700.43
- (18) 2121
- (19) 2

- *(20) 736 813
 - (21) 6050
 - (22) $\frac{3}{10}$
 - (23) 30
 - (24) 6
 - (25) .06
 - (26) $\frac{2}{3}$
 - (27) 1800
 - (28) $\frac{11}{20}$
 - (29) 5
- *(30) 943970 1043334
- (31) $\frac{3}{40}$
- (32) 14
- (33) $\frac{9}{10}$
- (34) $\frac{26}{25}$
- (35) 42
- (36) 25
- (37) 72

- (38) 5000
- (39) 1
- *(40) 189882 209868
- (41) 2
- (42) $\frac{1}{2}$
- (43) 4
- (44) 4
- (45) 6
- (46) 441
- (47) $1\frac{3}{4}$
- (48) 11111
- (49) 3
- *(50) 9508 10508
 - (51) 3
- (52) 10506
- (53) $2\frac{4}{99}$
- (54) 3
- (55) 5
- (56) 407
- (57) 24
- (58) 1500
- (59) 10

- *(60) 457 505
 - (61) 19
 - (62) 115
 - (63) $1\frac{1}{12}$; $\frac{13}{12}$
 - (64) 12
 - (65) 160
 - (66) $\frac{1}{2}$; .5
 - (67) 20
 - (68) 28
 - (69) 38
- *(70) 29094 32156
- (71) 44
- (72) $1\frac{1}{4}; \frac{5}{4}; 1.25$
- (73) 6.25
- (74) -2
- (75) 1920
- (76) $\frac{2}{9}$
- (77) 16
- (78) 120
- (79) 3120
- *(80) 4231395 -

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