University Interscholastic League 2005 – 2006 Elementary Number Sense Test B

Contestant	's Number	ti ti se e ati i i i jiji		Final	A	ris (right)
1712				2 nd		
Read Direc Before Begi	tions Carefully inning Test	Do Not Unfold This Until Told to Begin		<i>#</i>	Score	Initials
SOLVED M each problem	Do not turn this page until the olve accurately and quickly a (ENTALLY. Make no calculated). Problems marked with a (e exact answer will be scored	is many as you can in the ilations with paper and po *) require approximate in	order in what neil. Write carel energy	only the answer in the sp	ROBLEMS A	RE TO BE
The person co	onducting this contest should				a dine.	70 g
	43 =		(22)	75 × 55 =		Tr. GP
(2) 5+1	13 + 55 = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	To the english	(23)	30 quarts =	1.14	pints
	35 = <u></u>	and the particular transfer and the	(24)	96% =		
(4) 8 × 1	2 =		(25)	3.19 – 1,58 =		
(5) 64÷	· 4 =	100	(26)	76520 decimeters		decameters
(6) XLV		Arabic Number	(27)	Which is smaller 8	11	· - 5. (114).
(7) 17+	3+6+14=	12 - 613	o swift			
	12 = 1		(28)	How many positive inte	gers evenly di	vide into 24?
(9) 75 × 3	24 = <u>*</u>	in Auditor (LVI	(29)	0.36 ÷ 0.5 =	v (200) v ng 18	60, At (18)
(10) 18 +	92 + 803 =	www.ce.ce	*(30)	334 × 479 =	and the second	(decinal)
(11) 78 ×	11 = <u></u>	Lakens d	The Land	275 ¢ =	an san available	nickels
(12) 835 +	9 has a remainder of	Parato Capa	(32)	If 4 pencils cost 96 ¢, the	a produced some se	SAN TO SAN T
(13) 18 × 1	12 ≖	<u> </u>		\$	sir a dozen pen	CIES COST
(14) 104×	105 =		(33)	12 - 8 + 2 =		And the state of t
	+5+7++11=		(34)	The greatest common fac	tor of 48 and 3	32 is <u> </u>
(16) 2842	ed at the same processor + 14 =		(35)	What is the ratio of quart	ers to dimes in	\$4.50?
(17) 28 × 3	2=			The second of the second	talan en en en en	11.71 (17.1
(18) 705 -	56 - 24 =	Array 12 18 July 19	(36)	20	no (il viagire	decimal
(19) 16+3	2 + 48 =		1	13 7		in be why
(20) 6005 4	+ 6899 + 606 =	Kenjus to Tille	(37)	$\frac{13}{16} - \frac{7}{16} =$		fraction
(21) The la	rgest prime number less than	100 is		83 × 101 =		

9			u ra
(39)	0.475 =%	(61)	41 ² =
*(40)	876 × 319 =	(62)	The area of a triangle with base 25 and altitude 48 cm
(41)	$\frac{7}{15} - \frac{1}{6} - \frac{1}{6}$ (fraction)	(63)	is cm ² If the congruent angles of an isosceles triangle are 58°, then the third angle is °
(42)	If $A = 2$, $B = 8$ and $C = 14$, then $\frac{4B - C}{4} = \frac{1}{4}$	(64)	(-6) + (-4) × (-2) =
(43)	4 5	(65)	What is the probability of rolling a sum of 5 when
	9 6		throwing two dice?
(44)	The next number in the series 1, 4, 9, 16, is	(66)	What is the smallest integer greater than π?
(45)	17 ² =	(67)	If the area of a rhombus is 200 square feet and one
(46)	$\frac{4}{7} + \frac{7}{4} =$ (Mixed number)		diagonal is 25 feet, then the other diagonal is ft
(47)	What is the volume of a solid rectangular box that	(68)	What is the smallest value of x such that $x + 8 > 40$?
•	measures 4' × 5' × 6'?		
(48)	$4\frac{1}{4} \times 8\frac{1}{4} = $ (Mixed number)	(69) *(70)	$8^2 + 24^2 =$ $27 \times 25 \times 11 =$
(49)	23 (base 6) + 43 (base 6) =(base 6)	(71)	5 ⁴ =
*(50)	167 × 3610 ==		· · · · · · · · · · · · · · · · · · ·
(51)	If 1.06 liters equal 1 quart, then 2 gallons =L	(72)	The multiplicative inverse of $3\frac{1}{3}$ is
(52)	What is the perimeter of a regular hexagon with side	(73)	$33\frac{1}{3} \text{ percent of } \frac{3}{4} \text{ is } = \underline{}$
(53)	measuring 3½ meters?m What is the power set for the set {A, U, S, T, l, N}?	(74)	What are the odds of rolling a single die and getting an even number?
(54)	202 × 46 =	(75)	26 × 22 + 24 × 22 =
(55)	What is the diameter of a circle with an area of 144π	(76)	A regular nonagon has sides
(56)	square meters?m 160 acres =square miles	(77)	The surface area of a sphere with radius 12 meters is π cm ²
(57)	If one leg of a right triangle is 8 cm and the		π cm ²
(37)	hypotenuse is 10 cm then the other leg iscm	(78)	The interest on \$400 for six months at 61/4% is
(58)	$\sqrt{361} = $	-	\$
(59)	$\frac{1}{3} + \frac{1}{4} + \frac{1}{5} =$ (fraction)	(79)	$2^2 \times (12\frac{1}{2})^2 =$
	124 -=	*(80)	√18224 ·=