

These problems are meant to prepare you to be successful in Pre-Algebra next year. The packet is designed so that you can practice a variety of problems each week. It is recommended that you complete only one page of the packet each week so that you are able to keep your brain fresh from now until August! Remember to show all work in the space provided below the problems.





 ${\mathscr H}$ We look forward to working with you in the fall! ${\mathscr H}$

Student Name

Students are expected to know the following:

Multiplication tables for 1-12

Х	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Perfect Squares and Square Roots (1-12)

$1^2 = 1$	$\sqrt{1} = 1$	$7^2 = 49$	$\sqrt{49} = 7$
$2^2 = 4$	$\sqrt{4} = 2$	$8^2 = 64$	$\sqrt{64} = 8$
$3^2 = 9$	$\sqrt{9} = 3$	$9^2 = 81$	$\sqrt{81} = 9$
$4^2 = 16$	$\sqrt{16} = 4$	$10^2 = 100$	$\sqrt{100} = 10$
$5^2 = 25$	$\sqrt{25} = 5$	$11^2 = 121$	$\sqrt{121} = 11$
$6^2 = 36$	$\sqrt{36} = 6$	$12^2 = 144$	$\sqrt{144} = 12$

Measurement Conversions

1 week = 7 days	1 mile = 5280 feet
1 day = 24 hours	1 foot = 12 inches
1 hour = 60 minutes	1 mile = 1760 yards
1 minute = 60 seconds	1 yard = 3 feet
1 gallon = 4 quarts	1 kilometer = 1000 meters
1 quart = 2 pints	1 meter = 100 centimeters
1 pint = 2 cups	1 centimeter = 10 millimeters
1 kilogram = 1000 grams	1 pound = 16 ounces
1 liter = 1000 milliliters	1 dollar = 100 cents

Vocabulary

Evaluate - to calculate the value of an expression

<u>Simplify</u> - to reduce an expression to its simplest form (fewest number of terms possible)

<u>Solve</u> - to find a value for the variable that makes an equation true

<u>Expression</u> - numbers, symbols, and operations (+, -, ÷, x) grouped together (*can be evaluated/simplified*) <u>Equation</u> - uses an *equal sign* to show two expressions are equal to the same value (*can be solved*)



Name		
\$K \$K \$K \$	Preparing for Pre-Algebra!	\$ \$ \$ \$
Evaluate the following: (Leave your answer as an improper fraction, but remember to <i>reduce if necessary!</i>) $\frac{2}{3} \cdot \frac{5}{4}$	Find the area of the rectangle: 3 cm 8 cm	Find the least common multiple between the two numbers: 8 and 6
Round to the nearest HUNDREDTHS place: 2, 535, 419. 1724	Write the following as a DECIMAL: 28.4%	Evaluate the following: – 7 –– 2
Round to the nearest TENTH. What is 85% of 72?	Solve: x + 10 =- 14	Evaluate the following: $2 + \frac{10}{5}$





Name		
\$£ \$£ \$£ \$	Week 5	* * * *
Find the MEAN for the following set of numbers: 4, 8, 7, 5, 9, 3	Change the following mixed number into an improper fraction. $2\frac{3}{8}$	Simplify the expression: (<i>use the distributive property</i>) 2(5x - 3)
Evaluate the following: 3 · 7 – 5	List all <i>factors</i> of 24:	Angelina gets a weekly allowance. This week she spent \$3 on a stuffed animal. She still has \$4 left. Write an <u>equation</u> to represent that she had some money, spent some money, and has some money left. DO NOT SOLVE.
Simplify the expression: -2x - 3x - 5 - 2	Round to the nearest TENTH. 38 <i>is what percent of</i> 60?	Solve: 30 = - 15c







Preparing for Pre-Algebra! × Week 9 🛞 × × × Change the following mixed number Graph the following three points on Solve: into an improper fraction. 10 = 5rthe coordinate plane: $5\frac{2}{7}$ (0, -1), (3, -2), (-4, 2)Find the area of the triangle: Solve: Rebecca won 18 tokens at the arcade. She didn't know she had a hole 6 = 3x - 39 in her pocket, so she ended up losing 4 5 some of the tokens. Alissa felt bad that Rebecca had lost some tokens, so 12 she gave Rebecca 5 of hers. Write an <u>expression</u> to represent the number of tokens Rebecca has now. DO NOT EVALUATE. Simplify the expression: Write the following as a DECIMAL: List all factors of 60: 10(x - 7) - 65%



Name_____