Summer Packet 2019 Answer Sheet Score:_____ Name:_____

#_____ Period:_____Date:_____

Rising "Transitions to Algebra" Students

To get ready for Transitions, you will need to complete an online set of assignments at Aleks.com and the attached packet- have everything completed online and the packet ready to turn in on the first full day of class (August 08).

Online directions:
1. Log onto Aleks.com

2. Complete the Current course you are in- "Middle School Math Course I". If you are unable to complete the course, you must complete at least 30 topics.

3. If you complete Math Course I, you will be put in an "Middle School Math Course II"

4. Take the Diagnostic for "Middle School Math Course II" and do as much as you can before school starts

Packet Directions:

Please show all your work in the space provided or add additional notebook or graph paper as needed. You must show all work to receive credit for this assignment. No calculators are permitted on the summer packet. I recommend working on the packet each week instead of sitting down and completing it all at once. Please post your answers on the answer sheet provided. This will be collected on the first full day of school and will be graded for accuracy.

If you need assistance, I will be available to help you with these concepts on June.27 from 9:30-10:30 and July 17 from 11:30-12:30 in room 216.

1._____; _____ 2._____; _____

3._____; _____ 4._____; _____

5._____; _____ 6._____; _____

7._____; _____ 8._____; _____

9._____; _____ 10._____; _____

11._____ 12._____ 13._____ 14._____ 15._____

16._____ 17._____ 18._____ 19._____ 20._____

21._____	22._____	23._____	24._____	25._____
26._____	27._____	28._____	29._____	30._____
31._____	32._____	33._____	34._____	35._____
36._____	37._____	38._____	39._____	40._____
41._____	42._____	43._____	44._____	45._____
46._____	47._____	48._____	49._____	50._____
51._____	52._____	53._____	54._____	55._____
56._____	57._____	58._____	59._____	60._____
61._____	62._____	63._____	64._____	65._____
66._____	67._____	68._____	69._____	70._____
71._____	72._____	73._____	74._____	75._____
76._____	77._____	78._____	79._____	80._____
81._____	82._____	83._____	84._____	85._____
86._____	87._____	88._____	89._____	90._____
91._____	92._____	93._____	94._____	95._____
96._____	97._____	98._____	99._____	100._____

Place Value, Translating Words to Math & Rounding

Name the place value and identify the value of the underlined digit.

Examples:

I. 3<u>4</u>,521: Answer: thousands; 4,000 II. 97.0<u>6</u>32: Answer: hundredths; 0.06

1. <u>2</u>,732 2. 51.<u>1</u>9 3. 4,231.0<u>9</u>42 4. 0.58<u>6</u>82 5. 7<u>4</u>5.091

6. 1,<u>2</u>14.782 7. 2,3<u>1</u>3.17 8. <u>3</u>5,486,512.99 9. 1.2<u>6</u>23 10. 92,32<u>2</u>.8

Translate each set of words to number form or to a math expression.

Examples:

I. Twelve thousand, five hundred two and three tenths: Answer: 12,502.3

II. The sum of forty and two: Answer: 40 + 2

11. Sixteen and eight hundredths
12. Four thousand, fifty eight
13. Two hundred four and two tenths
14. Twenty five and thirty two hundredths
15. Sixty-eight million
16. Three and two ten-thousandths
17. The product of eight and twelve
18. The quotient of nine and three
19. The difference between ten and two
20. Two less than eighty

Round each value to the designated place value.

Examples:

I. 28 to the nearest ten: Answer: 30 II. 623.429 to the nearest tenth: Answer: 623.4

21. 593.28 to the nearest thousand
22. 62,531.84 to the nearest hundred
23. 75,999 to the nearest thousand
24. $682.489 to the nearest cent
25. 0.8305 to the nearest hundredth
26. $849.50 to the nearest dollar
27. 12,762.98 to the nearest whole number
28. 684.99 to the nearest ten
29. 481,327, 641 to the nearest million
30. 149,999 to the nearest thousand

Integers & Order of Operations

Evaluate each expression.

Examples:

I. $(4)(-3)$ Answer: -12

*Positive x Negative = Negative

II. $4 - 9$ Answer: -5

* $4 - 9 = 4 + (-9)$ Different signs so subtract and keep the sign of the number with a larger absolute value

III. $4 + 8 \cdot 2$ Answer: 20

*Follow order of operations (PEMDAS) Multiply 8 and 2 and then add 4

31. $-91 + 76$

32. $-48 + (-12)$

33. $-29 - 12$

34. $-12 - (-32)$

35. $-11 \cdot 4$

36. $-24 \div 6$

37. $\frac{11+1}{6-2}$

38. $(-3)(-18)$

39. $36 - 4 \cdot 3$

40. $18 - (2)(7)$

Decimals

Add or subtract as indicated. *Remember to line up decimal points before adding or subtracting. Fill in zeros to hold place values as needed.

41. 512.96 + 231.45

42. 587.24 + 421.9

43. 62.75 + 310.002

44. 921.97 – 500

45. 78.24 – 312.8

46. $8.00 – $6.78

47. $10.00 - $0.99

48. 9.1 + 15 + 23.4 + 122 + 68.23

49. 98.27 – 32.5 – 16.4

50. –481.27 – 21.73

Multiply. *Reminder: To multiply decimals, multiply as usual. Then count the values to the right of the decimal point in both factors. Add them together to find their sum. Leave the same number of values to the right of the decimal point in the answer as the sum found in the prior step.

51. (3.2)(5.3)

52. (6.07)(2.6)

53. (23.71)(19.46)

54. (23)(321.07)

55. (9,000)(0.2)

56. (765.2)(2.31)

Divide. *Reminder: The divisor may not have a decimal in it. Move the decimal point to the end of the divisor to make it a whole number. Move the decimal point in the dividend the same number of places it was moved in the divisor. Bring the decimal point up to the quotient line. Divide until you get a terminating or repeating decimal.

57. 27.3 ÷ 3.5

58. 40.5 ÷ 1.25

59. 226.793 ÷ 18.1

60. 24.003 ÷ 63

61. 330.54 ÷ 4.2

62. 9816 ÷ 0.3

Fractions & Mixed Numbers

Evaluate each expression. **Express answers in lowest terms.** ***NO DECIMAL ANSWERS.***

*Reminders: To add or subtract fractions, they must have a common denominator.
To multiply fractions, multiply the numerators, multiply the denominators, simplify if possibly. You can also cross cancel if diagonals have a GCF > 1.
Dividing fractions is the same as multiplying by the reciprocal, so leave the first fraction alone, change the division sign to times and flip the 2nd fraction. Then follow multiplication rules.

63. $\frac{3}{8}+\frac{1}{4}$

64. $\frac{2}{3}-\frac{2}{5}$

65. $4\frac{1}{3}+2\frac{2}{5}$

66. $8\frac{1}{4}-3\frac{2}{3}$

67. $\frac{2}{3}+\frac{5}{6}$

68. $9\frac{1}{8}-2\frac{5}{6}$

69. $\frac{3}{5}\cdot\frac{2}{3}$

70. $3\frac{3}{5}\cdot\frac{1}{6}$

71. $8\cdot\frac{1}{6}$

72. $\frac{2}{3}\div\frac{5}{6}$

73. $4\frac{9}{10}\div 2$

74. $\frac{3}{5}\div\frac{1}{6}$

75. $\frac{9}{10}\div\frac{3}{4}$

76. $\frac{1}{2}\div\frac{3}{8}$

77. $\frac{1}{3}(9)$

78. $\frac{1}{4}(12)$

79. $\frac{2}{3}(15)$

80. $\frac{1}{2}(48)$

Conversions

Convert each value to the unit of measured indicated. Use the chart provided or Mr. Milton's if you don't yet have them memorized. These will need to be memorized by the first test.

81. 40 fl oz = _____ pt.

82. 5.5 tons = _____ lbs.

83. $9\frac{1}{3}$ yd = _____ ft.

84. 2.25 miles = _____ ft.

85. 72 in = _____ yd.

86. 12 qt = _____ pts.

87. 9 feet = _____ in.

88. 10 cups = _____ qt.

89. 4 hours = _____ seconds

90. 24 pt = _____ gal.

Length

12 in = 1 foot
3 ft = 1 yard
36 in = 1 yard
5,280 ft = 1 mile
1760 yd = 1 mile

Time

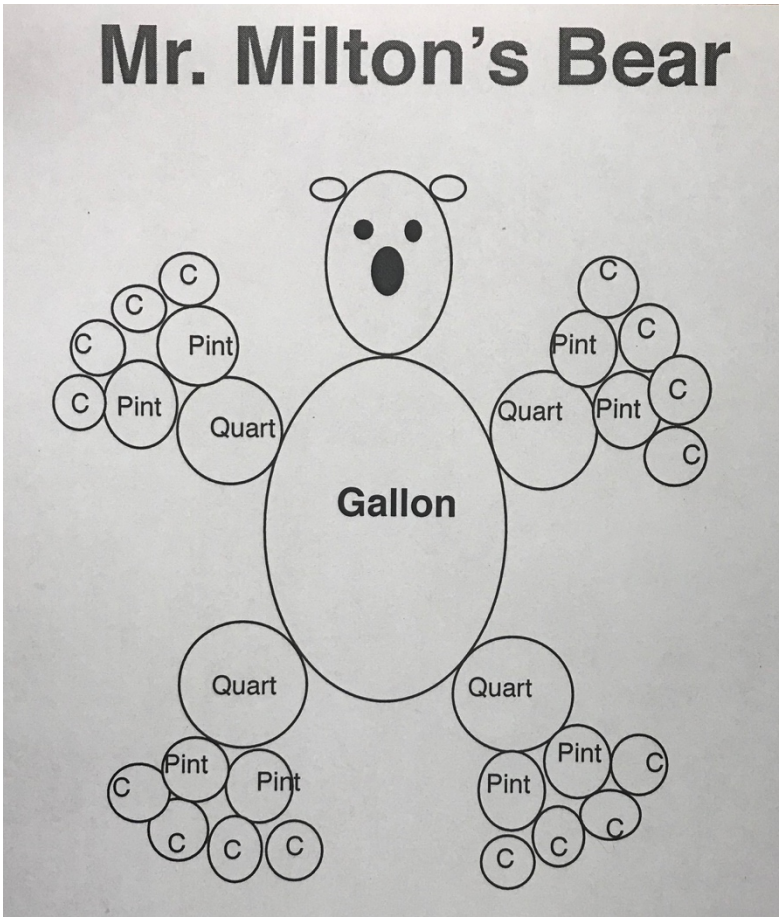
60 sec = 1 minute
60 min = 1 hour
3,600 sec =1 hour
24 hours = 1 day

Weight

16 oz = 1 pound
2,000 lbs = 1 ton

Liquid

8 fluid oz = 1 cup
2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gal



For conversions within the Metric System, use: **K**ing **H**enry **D**ied **B**y **D**rinking **C**hocolate **M**ilk

K	**H**	**D**	**BASE**	**D**	**C**	**M**
Kilo	Hecto	Deka	Meter Liter Gram	Deci	Centi	Milli

Move the decimal the same number of places and direction from the original unit to the desired unit.

91. 5 km = _____m

92. 6L = _____mL

93. 3,700 mL = _____L

94. 20mm = _____cm

95. 52.9 kg = _____g

96. 9.7 cm = _____m

97. 160 mg = _____g

98. 14.765 m = _____cm

99. 45.65 km = _____m

100. 1,250mL = _____L