Summer Packet 2026 Answer Sheet Score:_____ Name:_____

Period:_____Date:_____

Rising 8th Grade Students

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.

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 round to the given place value.

Examples:

I. 3<u>4</u>,521: Answer: thousands; 35,000 II. 97.08<u>6</u>32: Answer: thousandths; 97.086

1. <u>2</u>,832,911 2. 91.<u>1</u>9 3. 231.0<u>9</u>42 4. 0.58<u>6</u>82 5. 7<u>4</u>5.091

6. 1,<u>9</u>74.782 7. 2.3<u>1</u>3 8. <u>7</u>5,486,512.99 9. 92,32<u>2</u>.8 10. 92,32<u>2</u>.8

11. $741.583 to the nearest cent

12. $849.50 to the nearest dollar

13. 210,800.78 to the nearest whole number

14. $699.99 to the nearest dollar

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

15. Five hundred four and six tenths

16. Seventy-four and thirty two hundredths

17. Sixty-eight million

18. Three and two ten-thousandths

19. Sixty and eight hundredths

20. Four thousand, fifty eight

21. The difference between twelve and two

22. Three less than seventy-two

23. The product of eight and twelve

24. The quotient of eighteen and three

25. The sum of sixty four and three tenths

26. Two less than the product of three and four

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

26. $-168 \div 4$

27. $47 - 4(5 - 3)$

28. $36 - (3)(2)$

29. $13 - (-10)$

30. $24 - 3(2 + 5)$

31. $-88 + 76$

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. $16 - 4 + 3^2 \cdot 2 - 5$

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. $\frac{5}{8}+\frac{1}{4}$

64. $\frac{2}{5}-\frac{2}{7}$

65. $7\frac{1}{3}+2\frac{2}{3}$

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

67. $\frac{3}{4}+\frac{5}{6}$

68. $9\frac{1}{3}-2\frac{5}{6}$

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.

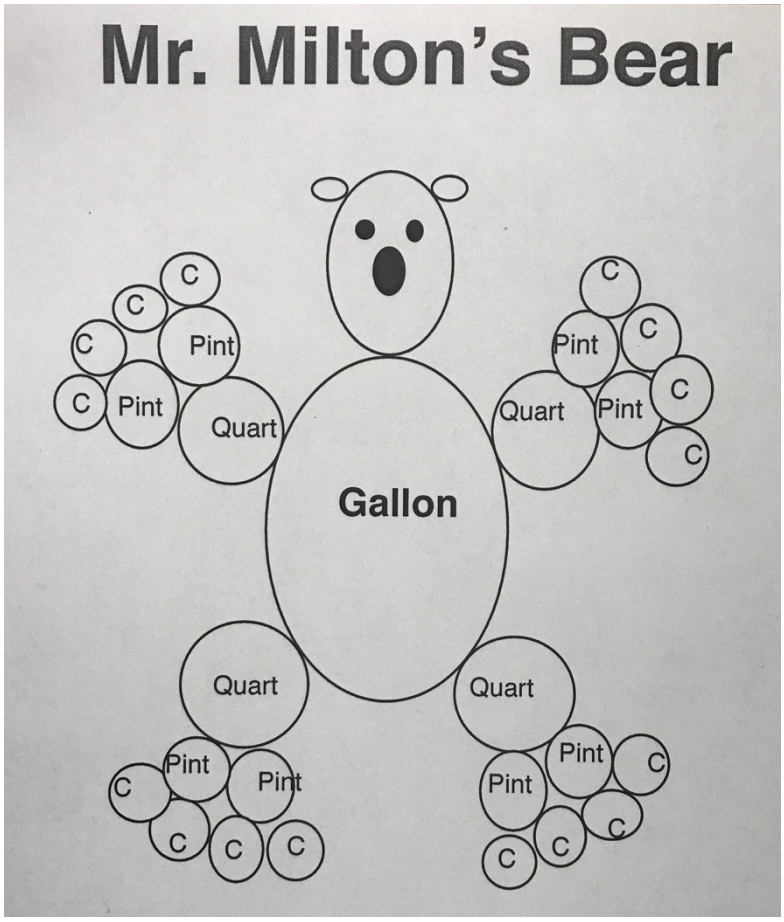
87. 9 feet = _____ in.

88. 10 cups = _____ qt.

89. 4 hours = _____ seconds

90. 24 pt = _____ gal.

Length	Time	Weight	Liquid
12 in = 1 foot	60 sec = 1 minute	16 oz = 1 pound	8 fluid oz = 1 cup
3 ft = 1 yard	60 min = 1 hour	2,000 lbs = 1 ton	2 cups = 1 pint
36 in = 1 yard	3,600 sec =1 hour		2 pints = 1 quart
5,280 ft = 1 mile	24 hours = 1 day		4 quarts = 1 gal
1760 yd = 1 mile			



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