Name: _____ Date: _____

Rising 7th Grade Summer Math Packet

Skill #1:Decimals and Place Value

Write the value of the underlined digit.

1) 842,<u>9</u>76 2) 761.0<u>3</u>25

3) Write seven and ninety-six thousandths as a decimal._____

4) Write 9.204 in words. _____

5) Write 0.0000073 in words._____

_____

Skill #2: Comparing and Ordering Decimals

Write the decimals in order from least to greatest.

6) 7.21 0.712 72.1 0.721 _____

7) 0.01010 0.10101 0.01001 0.00101 _____

Comparing using >, < or =

8) 0.000307 _____ 0.003007 9) -6.954 _____ -8.96

Skill #3: Rounding

10) Round 15,763.753 to the nearest hundredth. _____

11) Round 96.3721 to the nearest tenth. _____

12) Round 123.9842 to the place of the underlined digit. _____

13) Round 2,348,721.5295 to the nearest ten thousand. _____

14) Round 287.261098 to the place of the underlined digit. _____

Skill #4: Adding and Subtracting Decimals

15) 76.87 − 45.91

16) 36.283 − 9.72

17) 1345.734 + 86.508

18) 9 − 3.245

19) 16 + 48.792

20) 1.309 + 2.46 + 28.60

Skill #5: Multiplying Decimals

21) 0.0027 • 0.04

22) 23.4 • 3.6

23) 6.005 • 7.08

24) 38.6 x 0.4

25) 342.3 • 7

Skill #6: Dividing Decimals by Whole Numbers
Students will be able to divide decimals by whole numbers.

26) $16.8 \div 4$

27) $0.1026 \div 38$

28) $7{,}354 \div 0.01$

29). $35.4 \div 3$

Skill #7: Dividing Decimals by Decimals
Students will be able to divide decimals by decimals.

30) $3.813 \div 4.1$

31) $0.002847 \div 0.73$

32) $86.9 \div 0.011$

33) $0.001071 \div 0.51$

34) $365.8 \div 0.0002$

Skill #8: Multiplying and Dividing by Powers of Ten
Students will be able to multiply and divide numbers by powers of ten.

35) $7{,}354 \div 0.01$

36) $63.57 \div 1{,}000$

37) $5.697 \times 10{,}000$

38) 96.45 x 0.0001

39) 0.00056 x 100,000

Skill #9: Mixed Numbers and Improper Fractions
Students will be able to convert mixed numbers to improper fractions as well as convert improper fractions to mixed numbers.

Convert mixed number to improper fraction.

40) $6\frac{4}{7}$

41) $9\frac{7}{8}$

42) $12\frac{1}{5}$

43) $7\frac{3}{5}$

Convert improper fraction to mixed number.

44) $\frac{11}{3}$

45) $\frac{48}{11}$

46) $\frac{24}{9}$

47) $\frac{73}{6}$

48) $\frac{32}{14}$

Skill #10: Adding and Subtracting Fractions with Unlike Denominators
Students will be to add and subtract fractions with unlike denominators.

49) $\frac{9}{12} + \frac{3}{8}$

50) $\frac{2}{7} + \frac{4}{9}$

51) $9\frac{8}{10} - 7\frac{3}{5}$

52) $15\frac{9}{16} - 8\frac{7}{8}$

53) $29\frac{15}{24} + 16\frac{36}{72}$

Skill #11: Multiplying and Dividing Fractions
Students will be able to multiply and divide fractions.

54) $\frac{5}{9} \cdot \frac{2}{3}$

55) $\frac{8}{12} \div \frac{3}{4}$

56) $\frac{12}{17} \cdot \frac{5}{6}$

57) $\frac{9}{13} \div \frac{4}{7}$

58) $3\frac{2}{5} \cdot 4\frac{1}{4}$

59) $5\frac{1}{5} \div 2\frac{5}{6}$

Skill #12: Drawing and Measuring Angles
Students will be able to construct an angle given the angle measurement as well as use a protractor to determine measure of angle.

60) Using your protractor, draw an angle with a measure of 75°.

61) Using your protractor, draw an angle with a measure of 130°

62) Measure the following angle.

Skill #13: Comparing and Ordering Fractions
Students will be able to compare and order both mixed and improper fractions.

63) $\frac{4}{9} \square \frac{5}{12}$

64) $\frac{10}{15} \square \frac{2}{3}$

65) $\frac{9}{5} \square \frac{4}{3}$

66) $8\frac{2}{3} \square \frac{25}{3}$

67) $\frac{2}{3}, \frac{1}{4}, \frac{9}{12}, \frac{1}{2}$

Skill #14: Converting between fractions, decimals, and percents.
Students will be able to convert factions to decimals, decimals to percents, percents to decimals, percents to fractions, fractions to percents and decimals to fractions.

68) 35% to a decimal.

69) 0.85 is what as a fraction?

70) 0.153 is what percent?

71) Convert $\frac{4}{5}$ to a decimal.

72) Convert 45% to a fraction.

73) Convert $\frac{3}{5}$ to a percent.

Skill #15: Comparing and Ordering Integers
Students will be able to compare and order a set of given integers.

Order from least to greatest

74) -8, -2, -10, 5

75) 135, -98, -101, 98, -15, 0

Student skill #16: Adding and Subtracting Integers
Students will be able to add and subtract integers.

76) $-15 + 8 =$

77) $-32 + (-40) =$

78) $45 - 108 =$

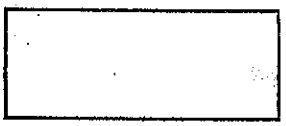
79) $-135 + (-86) =$

80) $62 - (-54) =$

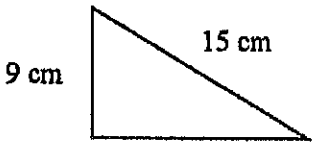
81) $-76 - 48 =$

Skill #17: Perimeter and Area
Students will be able to find the perimeter and area of rectangles, squares, and triangles.

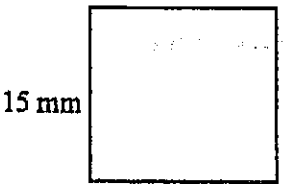
82) Find the perimeter and area of the rectangle.



83) Find the perimeter and area of the triangle. (Assume this is a right triangle.)



84) Find the perimeter and area of the square.



Skill #18: Unit Conversions
Students will be able to convert various units.

85) 12 yds. = _____ ft.

86) 3 gallons = _____ qts.

87) 3 kilometers = _____ meters

88) 720 minutes = _____ hrs.

89) 2 meters = _____ cm

90) 180 inches = _____ yds.

Skill #19: Rates
Students will be able to find rates.

91) 60 miles/hr. = _____ miles/minute

92) $10.75 for 5 cheeseburgers = $_____ for one cheeseburger.

93) 200 ft./minute = _____ ft./second

94) 5 km/hr. = _____ meters/minute

Skill #20: Order of Operations
Students will be able to calculate expressions using order of operations.

95) $12 + 32 \div 4 - 15 =$

96) $45 \div 3 \cdot (10 - 5 + 2^3) =$

97) $2 + (48 \div (12 + 4)) - 16 =$

98) $50 \div ((4 \cdot 5) - (36 \div 2)) - 91 =$

99) $\frac{3(3) + 18}{3(3)}$

100) $\frac{24}{4 - 3} \cdot 3$