7th Grade Mathematics 2023-2024
Dr. Rolando Espinosa K-8 Center

SUMMER PACKET

For ENTERING GRADE 7

This project will be due the first week of school and it will be graded. These are the concepts are expected to know coming into the 7^{th} grade. Make sure that you show all your work for each question. You should complete the entire packet **without** the use of **a calculator**. No credit will be given to any question(s) you answer without showing work. **Please use pencil only** and remember:

NO WORK = NO CREDIT

Name: _____

Teacher: _____ Period: _____

Students must show work for ALL PROBLEMS to receive credit for this assignment.

Find the GCF of each.

1) 32, 20

2) 48, 32

3) 50, 40

4) 50, 30

Simplify each. Write your answer as a mixed number when possible.

5) $\frac{24}{36}$

6) $\frac{20}{32}$

7) $\frac{18}{30}$

8) $\frac{60}{84}$

9) $\frac{20}{40}$

10) $\frac{45}{63}$

Write the name of each decimal place indicated.

11) 3.7<u>9</u>289

A) hundredths
B) thousandths
C) ten-thousandths
D) hundred-thousandths

12) 2.<u>8</u>851

A) millionths
B) thousandths
C) tenths
D) millions

13) 9.6<u>9</u>42

A) ones
B) hundredths
C) tens
D) hundreds

14) 7.84<u>7</u>7

A) millionths
B) tenths
C) thousandths
D) tens

15) 6.<u>4</u>002

A) tens
B) tenths
C) ten thousands
D) hundredths

16) 9.46<u>9</u>35

A) thousandths
B) tenths
C) hundreds
D) hundredths

Write each as a decimal. Round to the thousandths place.

17) $\frac{19}{25}$

18) $\frac{22}{25}$

19) $\frac{1}{160}$

20) $\frac{19}{30}$

Write each as a decimal. Round to the hundredths place.

21) $\frac{5}{7}$

22) $\frac{11}{24}$

23) $\frac{1}{3}$

24) $\frac{15}{26}$

Find each sum. You must show how you added the fractions to get to your answer.

25) $\frac{5}{7} + \frac{15}{8}$

26) $4\frac{2}{3} + \frac{1}{2}$

27) $7 + \frac{2}{7}$

28) $4\frac{2}{5} + \frac{1}{4}$

Write each decimal as a fraction or mixed number in simplest form.

29) 0.6

30) 0.45

31) 0.07

32) 3.56

Find each difference. You must show how you subtracted the fractions to get to your answer.

33) $6 - \frac{1}{2}$

34) $2 - \frac{4}{3}$

35) $2 - \frac{7}{4}$

36) $\frac{1}{2} - \frac{2}{5}$

Find each product. You must show how you multiplied the fractions to get to your answer.

37) $\frac{3}{2} \times \frac{3}{2}$

38) $\frac{2}{9} \times \frac{1}{7}$

39) $3\frac{7}{10} \times \frac{5}{8}$

40) $4\frac{6}{7} \times \frac{4}{9}$

Find each quotient. You must show how you divided the fractions to get to your answer.

41) $5\frac{8}{9} \div \frac{12}{7}$

42) $\frac{11}{8} \div \frac{10}{9}$

43) $\frac{3}{2} \div \frac{4}{3}$

44) $1\frac{1}{2} \div \frac{1}{3}$

Find each sum. You must show how you added the decimals to get to your answer.

45) 45 + 98.5

46) 13.5 + 42.2

47) 1.9 + 0.4

48) 11.9 + 94.9

Find each difference. You must show how you subtracted the decimals to get to your answer.

49) 77.6 – 40.6

50) 56.9 – 6.833

51) 31.4 – 21.6

52) 69.59 – 57.7

Find each product.You must show how you multiplied the decimals to get to your answer.

53) 7.6×3.9

54) 9.056×11.7

55) 8.8×10.3

56) 0.7×7.3

Find each quotient.You must show how you divided the decimals to get to your answer.

57) $10.5 \div 0.1$

58) $2.87 \div 8.2$

59) $9.8 \div 0.8$

60) $10.4 \div 10$

Evaluate each expression. You must show the steps you completed to get to your answer.

61) $(5 + 1) \times 4 - 2$

62) $(16 - 4) \div 2^2$

63) $2 + 4 - (6 - 4)$

64) $4 + 5 + 6 \times 5$

65) $5 \times 5 - 2 \times 6$

66) $(13 - (7 - 6)) \div 6$

List each data set in order from least to greatest. Then show how you calculated the mean, median, mode, and range.

73) # Words in Book Titles

3 2 2 3 4 2 3 2
5 2 3 4 2 3 3

74) Goals in a Hockey Game

11 6 12 5 6 3 7 4
8 6 5 6 7 5 5 6
5

75) Hits in a Round of Hacky Sack

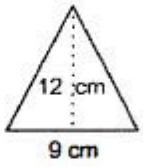
13 5 5 2 5 5 15 5
9 3 9 8 6 8 4

76) Hits in a Round of Hacky Sack

8 6 4 8 6 6 13 6
6 6 4 4 8 13 3

Find the area of the following problems.

1.)



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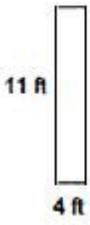

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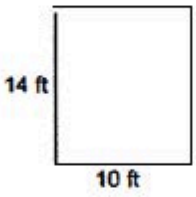
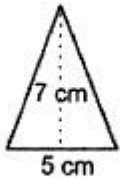
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