NAME:_____

SUMMER PACKET FOR STUDENTS ENTERING 7TH GRADE

(Please show all the work in a separate lined sheet of paper)

Decimals:

1.) 47.33 + 179.6

2.) 53.72 — 12.909

3.) 870.43 x 1.46

4.) 26.8 x 0.34

5.) 36.75 ÷ 4.2

6.) 0.31144 ÷ 3.4

Fractions: (All answers should be in simplest form.)

7.) $\frac{1}{6}+\frac{5}{8}$

8.) $\frac{7}{9}+\frac{7}{12}$

9.) $4\frac{1}{6}+5\frac{4}{9}$

10.) $7\frac{1}{2}-2\frac{5}{6}$

11.) $4\frac{2}{3}-2\frac{1}{5}$

12.) $\frac{12}{35}\times\frac{21}{54}$

13.) $2\frac{1}{3}\times3\frac{1}{5}$

14.) $4\frac{2}{3}\div3\frac{1}{3}$

15.) $\frac{2}{3}\div6$

16.) Write the fraction in simplest form: $\frac{36}{96}$

17.) Write $\frac{49}{11}$ as a mixed number.

18.) Write $6\frac{7}{8}$ as an improper fraction.

Integers: (Make sure to check the sign of your answer.)

19.) $^{-}5 + {}^{-}8$

20.) $^{-}13 - {}^{-}18$

21.) $17 - {}^{-}9$

22.) $^{-}16 + 22$

23.) $^{-}2 \times 18$

24.) $^{-}14 \times {}^{-}6$

25.) $^{-}128 \div 4$

Comparing Numbers: (Write <,>, or = to compare the numbers.)

26.) $\frac{1}{5}$ (?) $\frac{1}{8}$

27.) -2.5 (?) -2.6

28.) $7.\overline{5}$ (?) 7.55

29.) $6\frac{3}{4}$ (?) 6.75

Order of Operations: (Solve the problems.)

30.) $72 \div 8 \times 3 - 2 + 8$

31.) $60 - 3 \times 2^3 - (5 - 2)^2$

32.) $39 - 5 \times 3 + 4^2$

33.) $4\frac{1}{2} + 5\frac{1}{3} \times 1\frac{1}{8}$

Decimals, Fractions, and Percents:

34.) Write 0.912 as a percent.

35.) Write 6.4% as a decimal.

36.) Write 5/8 as a decimal.

37.) Write $\frac{13}{20}$ as a percent

38.) Write 35% as a fraction in simplest form.

Percents: (Solve the problems.)

39.) Find 24% of 72

40.) Find 8% of 250

41.) You buy a pair of pants that originally costs $45. The store has them on sale for 25% off. What is the sale price?

42.) 15% of the students in 6th grade are in band. There are 180 students in 6th grade. How many 6th grade band students are there?

Equations & Inequalities: (Solve the equations.)

43.) $5x = 8$

44.) $h - 71 = 104$

45.) $\frac{m}{1.2} = 4.8$

46.) $n + 7.2 = 19$

47.) $\frac{3}{4}f = \frac{5}{8}$

48.) $y - 4\frac{2}{3} = 2\frac{1}{4}$

Word Problems: (Solve.)

49.) Gina has some money in her wallet. She goes to the diner and spends $10.75 on breakfast and then stops at Staples and buys an ink cartridge for $28.50. She counts her money when she gets in the car and she now has $32.14. How much money did she have in her wallet before breakfast?

50.) A teacher divides 36 students into equal groups for a scavenger hunt. Each group should have at least 4 students, but no more than 8 students. What are the possible group sizes the teacher can make?

51.) The cooking time for a ham is $\frac{2}{5}$ of an hour for each pound of ham. How long should you cook a ham that weighs $12\frac{3}{4}$ pounds?

Expressions:

52.) Write the phrase as an **expression**: the sum of nine and triple a number ***m***

53.) Write the phrase as an **expression**: The product of 5 and the number, ***m***

Geometry:

54.) Find the area of a rectangle that is 15 feet by 9 feet.

55.) Find the perimeter of a rectangle that is 15 feet by 9 feet.

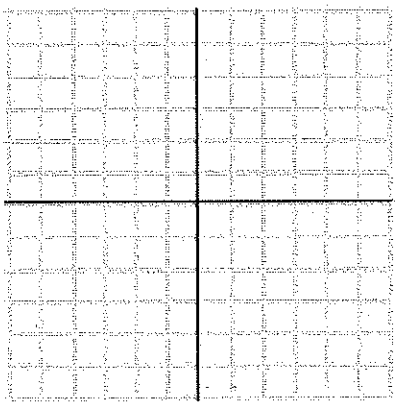
56.) Find the volume of a box that is 24 cm long, 35 cm high and 11 cm wide.

Coordinate Plane: (Plot the ordered pairs in the coordinate plane.)

57.) A(3, - 4) B(- 4, 2)

C(- 2, 0) D(- 3, - 5)

Make sure you label the point with its letter name when you graph it.



1. Solve. $2 + (64 - 58) \times 7$	2. Sandy had $ 50 in her purse. She bought a shirt for $12.98, a pair of pants for $20, and shoes for $15.20. How much change did she receive?	3. Solve. 450,000 - 123,678	4. $4\frac{1}{5} - 3\frac{2}{3} =$
5. Solve. 985 2,098 +4,347	6. A clown is $5\frac{3}{4}$ ft tall while barefoot and $1\frac{1}{3}$ ft taller while wearing stilts. How tall is the clown while wearing stilts?	7. Write the following in exponential form. $7 \times 7 \times 8 \times 9 \times 9 \times 9$	8. A shoemaker has $1\frac{3}{4}$ yards of leather. He uses $\frac{2}{3}$ of the leather. How many yards are used?
9. Compare. <, >, or =. $\frac{4}{12} \_\_\_\_ \frac{6}{11}$	10. Solve. 45,980 X 24	SCRATCHWORK:	

1. 34.56 - 2. 9 =	2. 45,887 x 3 =	3. Your peppermint plant is $\frac{3}{10}$ inch tall. After one week, it is $\frac{1}{2}$ inch tall. How much did the plant grow in one week?	4. Solve. $\frac{5}{9} \times \frac{12}{15}$
5. $6\frac{3}{4} + 3\frac{1}{5} =$	6. Find the GCF of the following numbers. 60 and 28	7. 984 + 32.1 =	8. Which digit is in the ten millions place? 204,567,000,345
9. Compare <, >, or =. 34.1 ____ 34.100	10. Solve. $13 - \frac{3}{8} =$	SCRATCHWORK:	

1. Order the numbers from least to greatest: 45.24, 45.9, 45.444, 45.398, 45.4, 45.39	2. Write the following fractions in lowest terms: A. $\frac{16}{24}$ B. $\frac{36}{60}$	3. Find the least common multiple of the following numbers (LCM): 45 and 9	4. Change to a mixed number: $\frac{100}{29}$
5. Solve. 4,578 X 86	6. Add. 108,956 + 122,462	7. Find the GCF of the following numbers: 80 and 24	8. $63.45 - $18.99
9. Compare. <, >, or =. 345,789__34,579	10. Find the perimeter of the given shape. L= 4 in. and W=3 in.	SCRATCHWORK:	

1. Subtract. 13,461 - 9,836	2. Simplify. A. $\frac{98}{6}$ B. $\frac{60}{90}$ C. $\frac{24}{4}$	3. Find the GCF of the given numbers. 120 and 36	4. 897.15 ÷ 15 =
5. Ali kicked a soccer ball 13.48 m. What is 13.48 rounded to the nearest tenth?	6. Solve. $9 - 4\frac{3}{10} =$	7. Solve. 12,364 ÷ 4 =	8. Reggie played two piano pieces at a recital. Each piece was $5\frac{1}{2}$ minutes long. How long are the two piano pieces combined?
9. Write the following number in expanded form. 792.03	10. An average person's upper leg bone measures 19.88 inches and the lower leg bone measures 16.94 inches. How much longer is the upper leg bone than the lower leg bone?	SCRATCHWORK:	

1. Solve. 65,900 - 23,477 =	2. Solve. $\frac{7}{8} + \frac{9}{10} =$	3. Solve. 400 - 12.98 =	4. Find the GCF and LCM of 12 and 16. GCF = LCM =
5. Order the fractions from least to greatest. *Find a common denominator first $\frac{7}{8}, \frac{2}{3}, \frac{1}{6}, \frac{4}{18}$	6. Round to the ones place. 78.857	7. Simplify the following fractions. a. $\frac{60}{120}$ b. $\frac{80}{22}$ c. $\frac{20}{55}$	8. Sara went to the fair with $15. On the first day she ate four items costing $0.75 each. She played 9 games that cost $0.50 and 4 games that cost $1.00. How much money does she have to start the second day at the fair?
9. There are 21 classrooms at Pine School. There are 32 students per room. Give an <u>estimate</u> of the total number of students in the school.	10. Solve. a. $s + 456 = 900$ b. $c - 45 = 136$ c. $30 - a = 10$	SCRATCHWORK:	