

Summer Packet – Students Entering Math 7

Decimals:

1.) $776.4 - 61.34$

2.) $9.875 + 39.75$

3.) $123 - 46.3$

4.) 4.25×22.3

5.) 62.5×4.9

6.) $111.618 \div 5.4$

7.) $0.11546 \div 2.3$

Fractions: All answers should be in simplest form.

8.) $\frac{5}{9} + \frac{7}{12}$

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

10.) $7\frac{1}{8} - 2\frac{5}{6}$

11.) $4\frac{3}{4} - 2\frac{7}{10}$

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

13.) $3\frac{1}{3} \times 3\frac{1}{5}$

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

15.) $\frac{2}{3} \div 6$

Integers: Remember to think about the sign of your answer. Signs should be clearly written.

16.) $-14 + (-27)$

17.) $-52 + 37$

18.) $-32 - 17$

19.) $-8 \times (-12)$

20.) $-42 - (-42)$

21.) $-48 \div 3$

22.) $-38 + 62$

23.) $47 - 75$

24.) -9×13

25.) $-21 - (-64)$

Order of Operations: Solve. All fraction answers should be in simplest form. Problems with fractions should have fraction answers.

26.) $37.2 - 14.28 + 7.6$

27.) $\frac{10^2 \div 4}{3 + 2}$

28.) $9^2 \div 3 \times 9 + 2^4$

29.) $128 - (3 + 2)^2 + 14$

30.) $3\frac{1}{3} + 9\frac{1}{6} \div 5\frac{1}{2}$

31.) $16.1 \div 3.5 \times 1.7$

Equations & Inequalities: Solve. All fraction answers should be in simplest form. Equations with fractions should have fraction answers.

32.) $4.2m = 25.2$

33.) $f - 5\frac{2}{9} = 9\frac{5}{6}$

34.) $n \div 3\frac{1}{3} = 8\frac{3}{5}$

35.) $92 = x + 8.9$

36.) $\frac{w}{2.1} \leq 8.4$

37.) $\frac{5}{6} < k + \frac{3}{4}$

Simplifying Expressions: Simplify.

38.) $4m + 13 + 7m - 5$

39.) $8(h - 9)$

40.) $7y + 9y - y + 2y$

41.) $6(2w + 7) - 3$

42.) $5(f + 3) + 4(3f - 2)$

Converting Fractions, Decimals, & Percents: Fraction answers should be in simplest form.

Write the decimal as a percent and a fraction.

43.) 0.35

44.) 2.7

45.) 0.448

Write the percent as a fraction and a decimal.

46.) 60%

47.) 124%

48.) 8.2%

Write the fraction as a decimal and a percent.

49.) $\frac{8}{25}$

50.) $3\frac{13}{20}$

51.) $\frac{5}{9}$

Percents of Numbers:

52.) Find 30% of 72

53.) Find 6% of 250

54.) Find 108% of 64

Problem Solving:

- 55.) A coat costs \$95. It is on sale for 20% off. What is the discount on the item? What will the sale price be?
- 56.) Hugh earned a 72% on his quiz. If he quiz had 25 questions, how many questions did he get correct?
- 57.) You purchase a couch a Dan's Discount City. The couch costs \$750 and there is 7% sales tax in New Jersey. How much sales tax do you pay? What is the final cost of the couch?
- 58.) Theresa made 24 foul shot out of the 30 foul shots she attempted during the season. What percent of her foul shots did Theresa make?
- 59.) Sue spent $\frac{1}{5}$ of her salary on a car payment. If Sue makes \$1,600 a month, how much is her car payment?
- 60.) Robert is taking a 780 mile car trip. He plans to stop every 130 miles and take a break. How many stops will he make during the trip?

- 61.) At Moe's Candy Shop, a super gobstopper weighs $\frac{1}{8}$ pound. Josie buys 27 gobstoppers for the guests at her party. How many pounds of gobstoppers did she purchase?
- 62.) Howard's team won 6 games out of the 8 games they played this season. If there are a total of 12 games in the entire season, how many games does the team need to win to keep the same ratio of wins to total games?
- 63.) Alana is carpeting her living room. If the room is 24 feet by 32 feet, how many square feet of carpeting will she need?
- 64.) Karla is making flower arrangements for her graduation party. She has 36 tulips and 54 daffodils. What is the largest amount of arrangements she can make if she wants all the flower arrangements to be exactly the same?
- 65.) The 7th grade has 81 girls and 72 boys. The grade is split into groups that have the same ratio of girls to boys as the whole grade. How many girls are in a group that has 16 boys?