

Name: _____

Date: _____

6th Grade Math FINAL EXAM REVIEW PACKET

1. Solve the following fraction problems:

a.) $\frac{2}{5} \div \frac{3}{7}$

b.) $\frac{3}{4} - \frac{1}{8}$

c.) $\frac{4}{7} \cdot \frac{5}{8}$

d.) $2\frac{1}{2} + 5\frac{2}{3}$

4. Place the integers in order from least to greatest:

-10, -6, 8, 1, 9, -3, 0

5. Divide: $\frac{4}{15} \div \frac{3}{5}$

2. Use an inequality symbol to make a true statement:

a.) -12 _____ -3

b.) -1 _____ -90

6. Add: $\frac{5}{8} + \frac{2}{3}$

3. Write the integer that applies to each situation:

a.) $|-6|$

b.) $|7|$

c.) $|17|$

d.) $|-3|$

e.) $|0|$

f.) $|-15|$

7. Add: $3\frac{2}{3} + 5\frac{3}{5}$

g.) the opposite of -6

h.) the opposite of 8

i.) the opposite of the opposite of -10

8. Write $\frac{853}{100}$ as a percent.

9. What is the least common multiple of 3 and 8?

10. Find the quotient: $\frac{1}{2} \div \frac{9}{10}$

11. Solve the following ratio problems:

a.) Mr. Burns got 8 out of 12 correct on his test. Write this ratio as a fraction in simplest form.

b.) Every month, the cafeteria orders 120 gallons of milk and 220 gallons of chocolate milk. What is the ratio of milk to chocolate milk as a fraction in simplest form?

12. Petra sold 24 adult tickets, 23 student tickets, and 8 child tickets for the school concert. What is the ratio of student tickets to total number of tickets?

13. Multiply: $3\frac{1}{2} \cdot 3\frac{1}{3}$

14. The area of Brian's rectangular garden, in square feet, can be found by using the expression $6(2x + 5y)$.

a.) Use the distributive property to write an equivalent expression for the area of Brian's garden.

b.) Use your equivalent expression to find the area of Brian's garden, in square feet, if $x = 3$ and $y = 4$.

15. Find the greatest common factor (GCF):

a.) 28 and 35

b.) 12 and 60

16. The ratio of students to teachers on a field trip is 50:5. Write a statement describing this ratio, in simplest form.

17. What is the greatest common factor of 75 and 90?

18. Write 1% as a decimal.

19. **Add:** $\frac{3}{14} + \frac{1}{3} + \frac{1}{7}$

20. Max's family drove their SUV 420 miles on a vacation. They used 30 gallons of gasoline. What is the unit rate that describes the distance the family drove per gallon of gasoline used?

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22. **Multiply:** $\frac{5}{6} \cdot \frac{2}{3}$

23. **Multiply:** $4 \cdot \frac{7}{8}$

24. **Find the unit price and decide which is the better buy. Round to three decimal places:**

\$7.80 for 14 ounces of shampoo

\$5.50 for 10 ounces of shampoo

25. **Write a number to represent the quantity:**

a.) nineteen degrees above zero

b.) a loss of seven yards

26. Write $\frac{39}{8}$ as a mixed number.

27. Write $\frac{2}{5}$ as a percent.

28. **Solve the following:**

a.) What number is 5 more than -2?

b.) What number is 4 less than 2?

29. **Subtract:** $19\frac{1}{7} - 3\frac{3}{7}$

31. **Write the unit rate for each of the following:**

a.) Jamal earned \$36 for 4 hours of work.

b.) We traveled 350 miles in 7 hours.

c.) 20 pens cost \$1.60

30. Shelton bought 5 erasers for \$1.35. What is the cost of each eraser?

32. The table below shows the amount, in pounds, of snow that Andy can remove over time using a shovel.

Time	1	2	3	4	5	6
Snow Removed	80	160	240	320		480

Based on the table, what is the amount, in pounds, of snow that Andy can remove in 5 minutes using a shovel?

33. **Give the ordered pair of point (-8, 14):**

a.) reflected across the x-axis

b.) reflected across the y-axis

c.) reflected across the x- and y-axis

35. **Find the quotient:** $2\frac{1}{2} \div \frac{1}{7}$

36. **Subtract:** $13\frac{1}{3} - 4\frac{4}{5}$

34. **Evaluate:** $\frac{2}{3} + \frac{3}{4} \cdot \frac{8}{5}$

37. Find the least common multiple (LCM):

a.) 4 and 10

b.) 12 and 18

43. Find the quotient: $1\frac{1}{5} \div 2\frac{1}{2}$

38. Subtract: $8 - 2\frac{3}{4}$

44. Divide: $\frac{5}{6} \div \frac{1}{2}$

39. Find the quotient: $\frac{5}{3} \div \frac{15}{7}$

45. Evaluate the expression when $x = 4$, $y = 6$, and $z = 8$:

a.) $(z + x) \div y$

b.) $(z \cdot y) \div x$

40. Find the greatest common factor of 9 and 18.

46. Write 165% as a decimal.

41. Write 0.24 as a percent.

47. Write an integer to represent:

a.) a 10-foot tree

b.) the roots of a tree are 5 feet below the ground

c.) the ground

d.) an account balance of \$20 less than zero

42. Find the quotient: $\frac{4}{5} \div 3$

48. Evaluate: $\frac{5}{6} - \frac{4}{9} \div \frac{2}{3}$

49. Use the distributive property to rewrite the expression (simplify if possible):

a.) $7(h - 8)$

b.) $m(3 + 4)$

50. The 120 sixth graders are going on a field trip to the museum. The museum requests a ratio of students to adult chaperones of 8:1. How many adult chaperones will be needed?

51. In 2018, the Atlanta United soccer team played a total of 38 games. They won 21 games, lost 7 games, and tied 6 games. What is the ratio of games won to games lost for the season?

52. Find the prime factorization of each of the following:

a.) 36

b.) 60

c.) 75

53. Write the rate as a unit rate: \$5490 earned in 9 weeks

54. Multiply: $\frac{4}{11} \cdot 2$

55. Divide: $2\frac{3}{4} \div 1\frac{7}{8}$

56. Arrange the following in order from *least to greatest*:

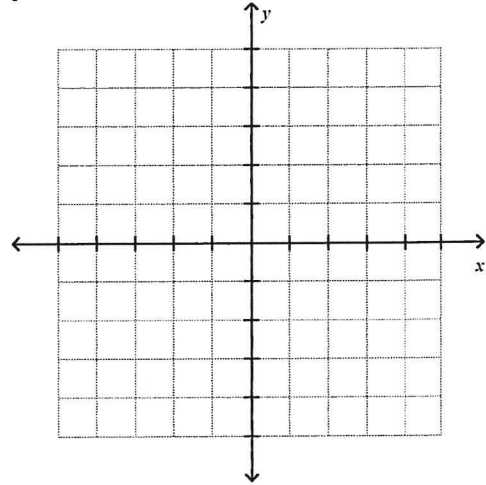
a.) 135.1, 0.651, 5.712, 1.342

b.) 7.12, 0.712, 17.021, 0.701

57. Write the rate as a fraction in simplest form: 5 cars for 25 people

58. Write $3\frac{4}{5}$ as an improper fraction.

59. Plot and label each point on the coordinate plane:



A (3, 2)

B (0, -4)

C (-3, -1)

D (5, 0)

60. Find the quotient: $6 \div \frac{1}{2}$

61. Write a ratio which compares the number of X's to the number of O's.

XXOOOXOOOX

62. Find the unit rate for the following situations:

a.) You type 500 words in 250 minutes. Find the number of words per minute you type.

b.) The bus holds 32 students and there are 192 students to use the bus. Find the number of students per bus.

63. Multiply: $\left(4\frac{1}{8}\right)\left(2\frac{2}{3}\right)$