

Rising 6th Grade Summer Math Review

Math Expectations

1. Show all of your work to receive credit. Some problems may simply require mental math, and that is fine. However, other computation problems should be written out and **all steps shown**.
2. You may use resources such as your parents, siblings, or even the internet if you really get stuck. However, all math work must be in your own handwriting.
3. Write all answers on lined paper numbered neatly. Make sure your answer is clearly indicated with a circle around your answer.
4. This will be the first math grade entered for the 2023-24 school year. Bring it with you on the first day of school!

Practice Problems

1. $\$20 - (\$5.63 + 12)$
2. Round 680 to the nearest hundred and then add it to 1,432.
3. 18 is 15% of what number?
4. Divide $\frac{100}{7}$ and write the quotient as a mixed number.
5. 30% of what number is 24?
6. $5x + 7 = 62$
7. Write 7.625 in words
8. Order from least to greatest: 1.02, 1%, $1\frac{1}{4}$
9. 307×593
10. Find the area of the following circle with a diameter of 6 cm.

11. There are 6 rows of 5 desks in the classroom. There are 4 books on each desk. If each book costs \$12.30, how much money will the school need to buy all the books?
12. The ratio of nickels to dimes is 4 to 3. If she has 18 dimes, how many nickels does she have?
13. If the length of a rectangle is 4 in and the width is 15 in, what is the perimeter and the area?
14. What is the area of a triangle with a base of 10 in and a height of 17 in?
15. Write 6.52 as a reduced fraction.
16. $-2 + -4 - -5 ++3 - 2$
17. 56 is 70% of what number?
18. What is the volume of a cylinder with a radius of 5 inches and a height of 6 in?
19. The ratio of girls to boys was 5 to 6. If there are 121 students in the school, how many are boys?
20. A large elephant weighs 4 tons. How many pounds does it weigh?
21. LCA had 72 students. They need to take busses to DC. If 13 students can fit on a bus, how many busses are needed?
22. Jillian can type 4 pages in one hour. How long will it take her to type 100 pages?
23. How many eggs are in 2 and $\frac{1}{2}$ dozen?
24. Draw a set of perpendicular lines.
25. Divide 7 by 9 and write the quotient as a decimal rounded to the hundredths place.
26. Michael earns \$11 for each lawn he mows. If he needs to earn \$160 dollars for camp how many full lawns does he need to mow?
27. Write 4% as a decimal and a reduced fraction.
28. How much time is between 1:25 a.m. and 3:10 p.m.?
29. Paula walks $\frac{3}{4}$ mile to school each day. If she walks to and from school for 5 days, how far will she have walked?
30. What is the median of the following numbers: 3, 5, 7, 2, 3, 5, 8, 5, 4, 2, 1, 7.

31. The perimeter of a square is 24 inches. What is the area?
32. What are the measures of all angles in an equilateral triangle?
33. Five is to three as thirty is to what number?
34. How many inches is $5\frac{1}{2}$ feet?
35. If the tax rate is 6% and the shirt costs \$13.78, what is the total with tax?
36. Write $1\frac{1}{3}$ as a percent.
37. If $\frac{4}{5}$ of the 200 runners finished the race, how many did not finish the race?
38. $\frac{1}{5} \times 4\frac{1}{2}$
39. $3 \times \frac{3}{8}$
40. $4 - 1\frac{2}{5}$
41. $\frac{1}{2}$ of $\frac{2}{3}$
42. Write $\frac{1}{8}$ as decimal.
43. List the factors of 50.
44. Paula walks $\frac{3}{4}$ mile to school each day. If she walks to and from school for 5 days, how far will she have walked?
45. How many quarts are in 3 gallons?
46. Write 4% as a fraction and a decimal.
47. $401.3 - 24.71 + \frac{1}{2}$
48. What is the circumference of a circle with a radius of 3 cm?
49. A candle can burn 3 hours for each inch of height. If a candle is $4\frac{1}{2}$ inches long, how long will it burn.
50. There are 50 students that need to be divided into 3 teams as equally as possible. How many students should be on each team?

51. $3\frac{2}{5} - 1\frac{1}{2}$

52. $3.65 \div 0.7$

53. $2\frac{2}{5} \div 1\frac{1}{2}$

54. A shirt is priced at \$36 and is 25% off. What is the price of the shirt?

55. Emma correctly answered 21 of 30 questions. What percent of the questions did she answer correctly?

56. $(-10)(-4)$

57. The $\sqrt{212}$ is in between which two consecutive whole numbers?

58. $3[16 - 2(5 - 3)]$

59. $\frac{8}{12} = \frac{12}{n}$

60. If one of the acute angles in a right triangle measures 38 degrees, what is the measure of the other acute angle?