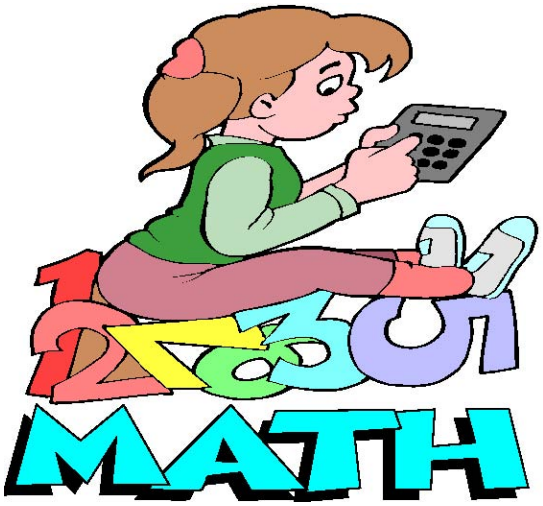
Rising 7th Grade Summer Math Work



Congratulations!
We can't wait to meet you!

Your future math teachers would like for you to complete the attached sets of math problems. Our intention with "Summer Math" is to keep you thinking and solving math problems.

The packet is due during the first week of school. Please show your work as no credit will be given to students who have not chosen to show their work.

Write an integer that describes each of the following situations.

1. David got in an elevator and went up 7 floors. Write as an integer. _____
2. Mika received a $200 bonus. Write as an integer. _____
3. Hannah lost 3 pounds. Write as an integer. _____
4. A scuba driver is 20 feet below sea level. Express as an integer. _____

Use <, >, or = to make the following statements true.

5. -9 _____ 8
6. -7 _____ -7
7. 9 _____ -2
8. -3 _____ -2

Arrange the following integers in order from least to greatest.

9. 0, 3, -4, 6, -6, 5, -3
10. 0,-22, 28, -3, -16, -5, 20, 6

Add:

11. 17 + (-12)
12. -17 + (-13)
13. -16 + (-3)
14. -2 + 5
15. -10 + 3

Subtract:

16. -11 – (-15)
17. -21 – (-6)
18. 7 – 10
19. 11 – 21
20. 1 – 15

Multiply:

21. -7 • -7
22. -6 • 7
23. -9 • 4
24. 5 • -6
25. 8 • 9

Solve:

26. x + 8 = -3
27. c + 13 = 7
28. 12 = m + 6
29. -24 = m – 2
30. x – 4 = -6

Solve:

31. -13x = -182
32. -5y = 35
33. -4x = -44
34. x ÷ -7 = 28
35. j ÷ 9 = 8

Add or subtract. Write answer in simplest form.

36. $\frac{3}{4} + \frac{1}{5}$
37. $\frac{1}{3} + \frac{1}{7}$
38. $\frac{11}{12} - \frac{1}{5}$
39. $\frac{3}{10} - \frac{1}{5}$
40. $6\frac{1}{3} + 4\frac{3}{12}$

Use order of operations to simplify the following problems.

41 $8 \cdot 6 + 20 - 25 \div 5$

42 $4 \cdot 63 + - \div 44$

43. $18 \cdot 10 - 4$

44. $26 \cdot 12 - 8$

45. $11 \cdot 9 + 2 - 20 \div 4$

Problem Solving.

46. Jim wants to carpet a den that measures 18 feet by 24 feet. In the center of the room is a tile hearth for his stove which he does not want to carpet. If the hearth measures 6 feet by 6 feet, how much carpet does he need?

47. There are 3,261 seats in the Sharp High School stadium. What is a reasonable number of rows in the stadium if each row holds about 35 people?

48. Sylvia's soccer team played a total of 18 matches. Her team won twice as many matches as they lost. How many matches did they win?

49. Jordan makes $5 per hour mowing lawns and $7 per hour painting houses during the summer. This week, Jordan made $102. If he worked twice as many hours mowing lawns as he did painting houses, how many hours did he work at each job?

50. The Cornell's want to buy a car that costs $4,260. They plan to make a down payment of $1,500 and pay the rest in twelve equal payments. What will be the amount of each payment?