



8th Grade Pre-Algebra Summer Packet

1. Due the first day of school!.
2. All problems must be done with all work shown.
3. You can do your work on these papers.
4. Do NOT erase anything that is written down!
5. You must be neat!
6. This assignment will be graded and is considered the 1st. Assignment of the school year.
7. Should you have any questions, please contact Mr. Santora, or Mrs. Santoiemmo at:

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Have a great summer!!!!

We are looking forward to a productive and fun math year!

Math Teachers

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For questions 1-4, simplify:

1. $9 + 15 \div 3$

2. $20 \cdot 8 + 18 \cdot 2$

3. $(25 + 3) \div (8 \div 2)$

4. $(5 + 7) \cdot (8 - 2)$

For questions 5-7, evaluate each expression if $a = 2$, $b = 3$, and $c = 4$.

5. $bc =$

6. $\frac{a+c}{c-a} =$

7. $(7a) - (4b) =$

For questions 8-11, simplify:

8. $9 \cdot 8 + 9 \cdot 12 =$

9. $(2 + 3 \cdot 4) \div 7 =$

10. $15 - 9 \div 3 \div 3 =$

11. $35 \div 7 \div (3 + 2) =$

For questions 12-14, solve

12. $15 - 27 =$

13. $(- 8) \cdot (- 13) =$

14. $(- 9) + 15 =$

For questions 15 and 16 solve for x

15. $5 = 2x - 7$

16. $4x = x + 3$

For questions 17 and 18, translate each phrase into a variable expression.

17. Five less than three times a number

18. Four more than one third a number

For questions 19-24, solve:

19. $3x = 27$

20. $\frac{1}{2}x = 12$

$$21. 2x - 6 = 14$$

$$22. 6x - 22 + 52 + 12 = 180$$

$$23. 6(x + 2) + 8 = 44$$

$$24. 34 - (-28) =$$

For questions 25-30, simplify:

$$25. 110 - (12 - 8)$$

$$26. 2 + (-5) + (-x) + 9$$

$$27. 2x + (-5x)$$

28. $(-8)(-3)(-5)$

29. $-2(2 + x) - 2(x - 2)$

30. $10(x - 1) + 4(3 - x)$