

Hello darlings!

Here is your summer math packet! It contains a review of skills that you learned this past year that are critical to your success in Pre-Algebra. NO CALCULATORS are allowed. Please show all of your work (neatly!) and circle your answers. I have heard wonderful things about the 6th graders and I can hardly wait to begin our math adventure together next year!

Expressions

Simplify the expression.

1. $24(-8) \div (-6)$

2. $-15(16)(4)$

3. $\frac{24(-15)}{12}$

4. $5.36 + p + 6.47$

5. $s + 7 + 96$

6. $11 + c + (-27)$

7. $6(-4b)$

8. $-21(x - 7) + x$

9. $3.25(5.02 - t)$

10. $-(x + 2)$

Coordinate plane

Give the coordinates of the point.

1. X

2. Y

3. Z

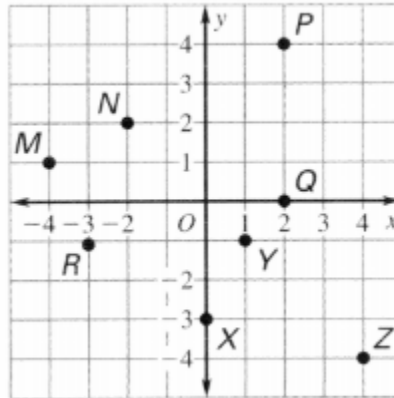
4. M

5. N

6. P

7. Q

8. R



Plot the point on the coordinate plane.

9. $(-7, 6)$

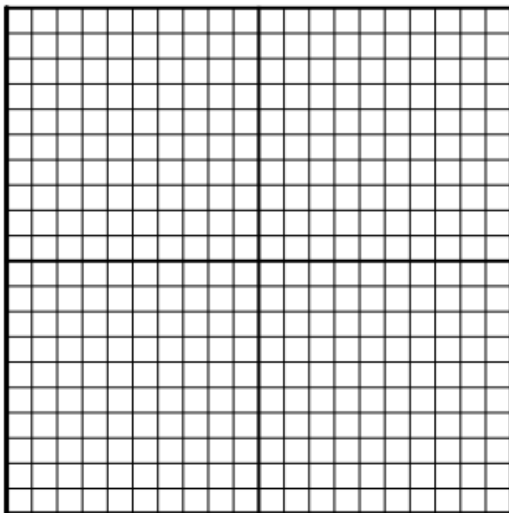
10. $(-5, -3)$

11. $(2, 3)$

12. $(0, -2)$

13. $(-4, 0)$

14. $(3, -6)$



Equations

Solve the equation.

1. $12b = -108$

2. $\frac{a}{2} = 36$

3. $-8 = \frac{k}{-4}$

4. $58 = 27 - l$

5. $10 + k + 6 = 22$

6. $-5 - 11 - h = -7$

7. $9m - 6m = 21$

8. $20 = -5(x + 7)$

9. $48 = 15 + 6(4 + x) - 3x$

10. $\frac{2}{3}x = -1$

11. $-\frac{9}{4} = -\frac{5}{4}x$

12. $\frac{2}{5}x = -\frac{1}{10}$

Inequalities

Solve the inequality.

1. $5 + x - 9 \geq 4$

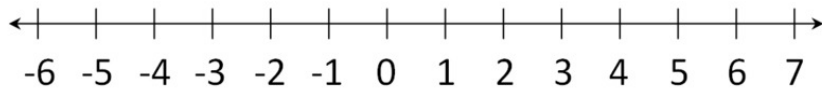
2. $2x > -34$

3. $-14x < 84$

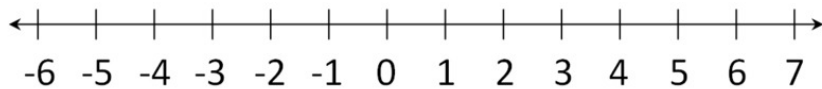
4. $8.3 \leq \frac{x}{-5}$

Graph the inequality.

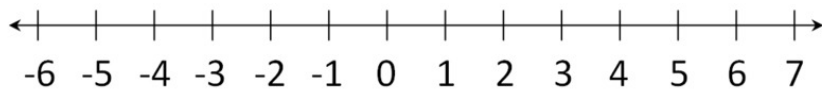
5. $x > -5$



6. $x \leq 3$



7. $x - 11 < -11$

**Order of Operations**

Evaluate the expression.

1. $2 \cdot 6 + 11 \cdot 1$

2. $90 \div 5 - 3^2$

3. $2(12 - 3 \cdot 4)$

4. $3[5 + (9 - 7)]$

Evaluate the expression when $x = 4$ and $y = 9$.

5. $6(x - 1)$

6. $7 + y \div 3$

7. $2xy + 3x$

8. $\frac{y}{x-1}$

9. $30 - 2y$

10. $0.5(y - 5)$