

7th Grade Summer Math Practice 2010

Directions:

1. Complete all of the problems in this packet.
2. Use pencil!
3. Show your work!
4. You may NOT use a calculator.
5. Check your answers with the answers provided in the answer packet.
6. Use a ruler when graphing lines.
7. You may use lined paper if you need more space.

This packet is due **Thursday September 9th, 2010.**
It will be worth 3 homework assignments.

Distributive Property:
Combine Like Terms

Name: _____

Simplify the Expressions – No Exponents

Worksheet # 4

1.) $-7x - 6(-7x - 10)$

2.) $-8 - 5(4x - 4)$

3.) $-5(n - 7) - 7n$

4.) $3 + 10(1 + n)$

5.) $-7n + 4(6n - 1)$

6.) $-10(n - 9) - 4$

7.) $-2 - 3(-10n + 4)$

8.) $-4(6x + 5) + 2$

9.) $-(1 - 9x) - 10$

10.) $-3(8x + 6) + 2$

Distributive Property:
Combine Like Terms

Name: _____

Simplify the Expressions - With Exponents

Worksheet # 5

1.) $-9x^2 - 2x(x - 4)$

2.) $5x(1 + 9x) - 5x^2$

3.) $-9n^2 - 6n(1 + 10n)$

4.) $-6x(6x + 2) + 4x$

5.) $-10x(8x - 3) - 3x^2$

6.) $-9(4x - 8) + 2x$

7.) $n(-6n - 6) - 3n$

8.) $2x^2 - 5x(1 - 8x)$

9.) $5n + 6n(1 + 5n)$

10.) $5x(3 - 2x) - 2x$

Distributive Property:
Combine Like Terms

Name: _____

Simplify the Expressions – With Exponents

Worksheet # 8

1.) $-5x+5x(1 + 2x)$

2.) $7x(1 + 6x) + 3x$

3.) $5x-2x(x+ 7)$

4.) $5n(9 + 3n) - 4n^2$

5.) $9n(n+ 6) + 9n^2$

6.) $-9x-7x(1 - 8x)$

7.) $-x^2 -6x(8 + 6x)$

8.) $-10x-3x(1 + 3x)$

9.) $5n^2 -3n(1 + 3n)$

10.) $x+7x(10 + 8x)$

Why Was the Pail Pale?



Solve each equation or problem and find your answer at the bottom of the page. Write the letter of the exercise in the box containing its solution.

E $5x + 2x - 9 = 40$

T $y - 4y + 3 = -30$

C $6t + 2 + 3t + 17 = 10$

A $3a - 7a + 12 = 32$

L $-5u + 4 + 8u = 43$

N $-k - 6 - 7k + 20 = -2$

U $\frac{5}{3}x - \frac{4}{3}x - 1 = 8$

I $-\frac{3}{5}b + 7 + \frac{2}{5}b = 19$

T $16 - 2n - 5 + 8n = 65$

E $4p - 13p - p = -150$

A $35 + \frac{5}{2}y - \frac{1}{2}y = 3$

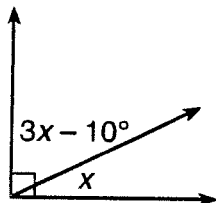
W $\frac{1}{8}d - 4 + \frac{3}{8}d - 4 = 5$

T $\frac{5}{7}m - 2 - \frac{6}{7}m = -13$

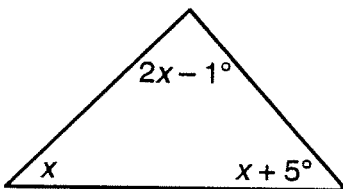
L $v - \frac{9}{10}v + 6 = 11$

S $70 - q - q - 2q = 80$

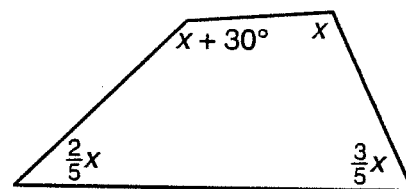
B The sum of the measures of two complementary angles is 90° . Find the measure of the angle labeled x .



K The sum of the measures of the three angles of a triangle is 180° . Find the measure of the angle labeled x .

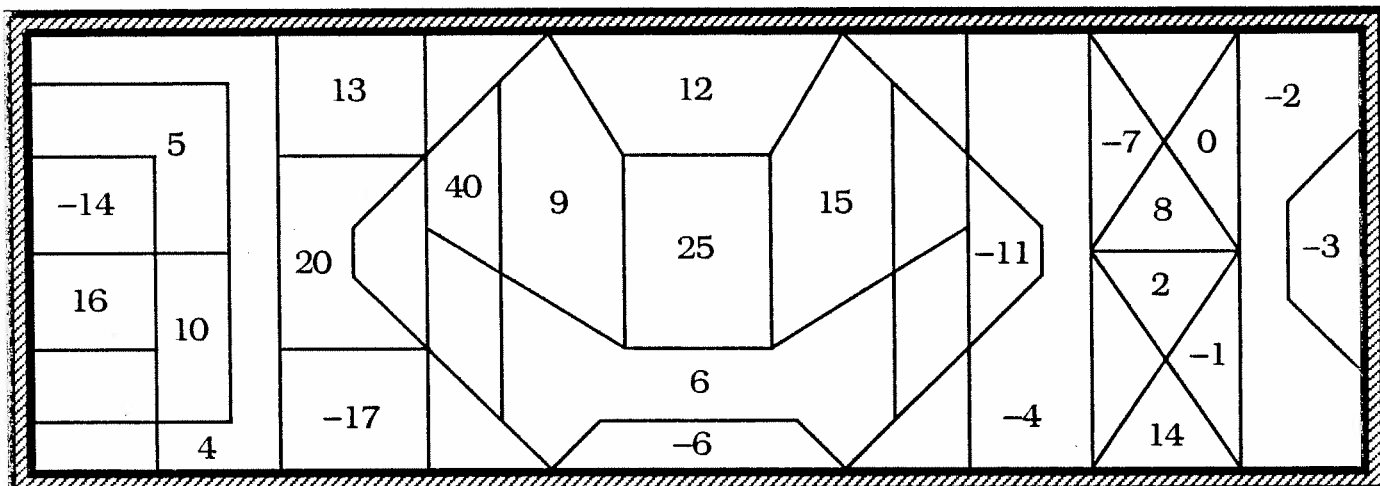


W The sum of the measures of the four angles of a quadrilateral is 360° . Find the measure of the angle labeled x .



-60	11	-8	26	-5	-2.5	2	9	36°	-16	31	110°	7	50	13	95°	25°	27	-1	44°	15	77
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WHAT IS HEAVY FORWARD BUT NOT BACKWARD?



Shade in the area containing each solution.

1. $x + 3(x + 4) = 20$

2. $6(y - 1) + 8 = 32$

3. $5 + 4(n + 9) = -3$

4. $5(k - 2) - 8k = -34$

5. $2 = 11 + 3(m + 3)$

6. $-2(p - 5) + 7p = -5$

7. $4a - 2(a + 9) = 6$

8. $7 - 4(d - 3) = 23$

9. $8x - 11(x - 2) = -8$

10. $5 = 6(q - 5) - 19$

11. $3(3 - y) + 1 = 31$

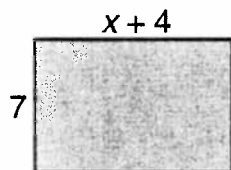
12. $5(2v + 4) = 170$

13. $5(4n - 4) = -60$

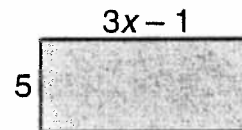
14. $2(3t - 8) - 4t = 10$

15. $9 - 4(2p - 1) = 45$

16. Write an equation and solve for x if the area of the rectangle is 70 square units.



17. Write an equation and solve for x if the area of the rectangle is 55 square units.



Multi-Step Equations

Solve each equation.

1) $-20 = -4x - 6x$

2) $6 = 1 - 2n + 5$

3) $8x - 2 = -9 + 7x$

4) $a + 5 = -5a + 5$

5) $4m - 4 = 4m$

6) $p - 1 = 5p + 3p - 8$

7) $5p - 14 = 8p + 4$

8) $p - 4 = -9 + p$

9) $-8 = -(x + 4)$

10) $12 = -4(-6x - 3)$

11) $14 = -(p - 8)$

12) $-(7 - 4x) = 9$

13) $-18 - 6k = 6(1 + 3k)$

14) $5n + 34 = -2(1 - 7n)$

15) $2(4x - 3) - 8 = 4 + 2x$

16) $3n - 5 = -8(6 + 5n)$

17) $-(1 + 7x) - 6(-7 - x) = 36$

18) $-3(4x + 3) + 4(6x + 1) = 43$

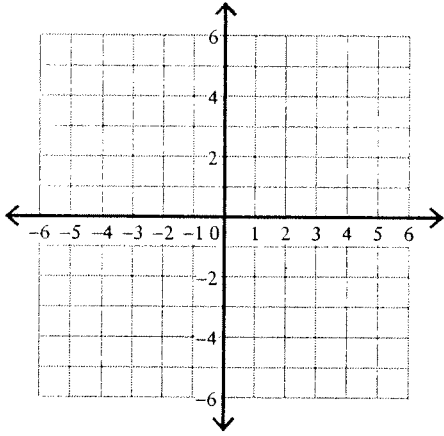
19) $24a - 22 = -4(1 - 6a)$

20) $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$

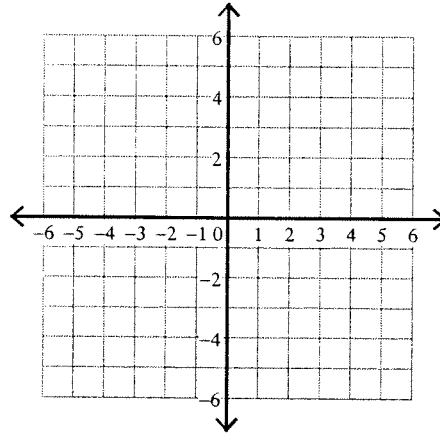
Graphing Lines

Sketch the graph of each line.

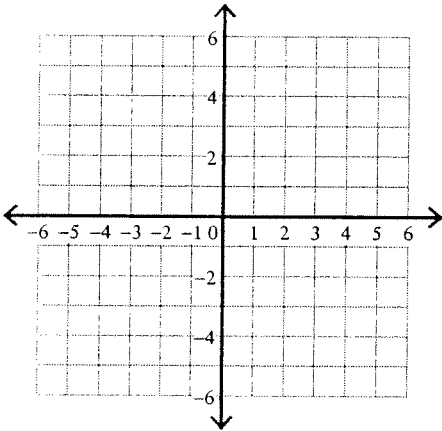
1) $y = -\frac{1}{5}x - 2$



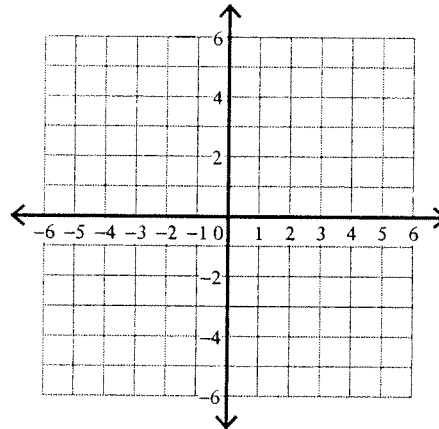
2) $y = -5x - 1$



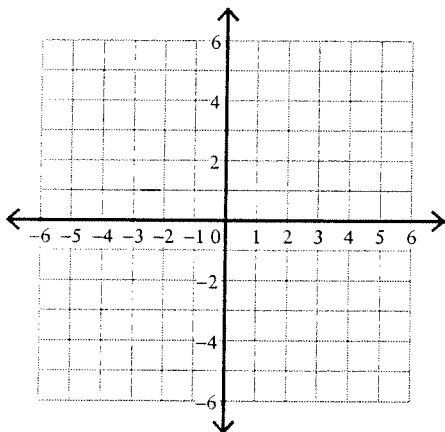
3) $y = -\frac{5}{2}x$



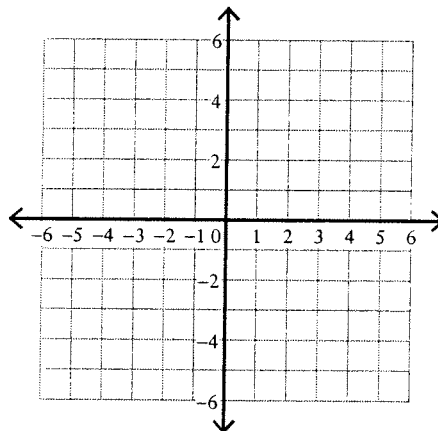
4) $y = -7x + 3$



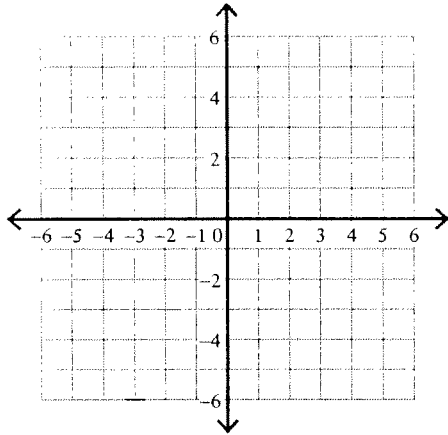
5) $y = 2x - 5$



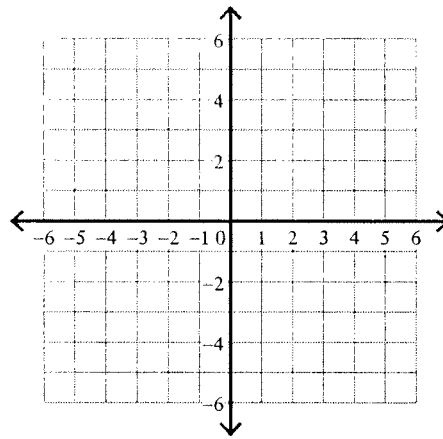
6) $y = -6x + 1$



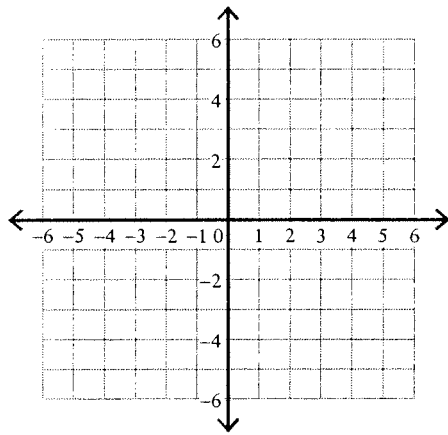
$$7) y = -\frac{1}{3}x + 4$$



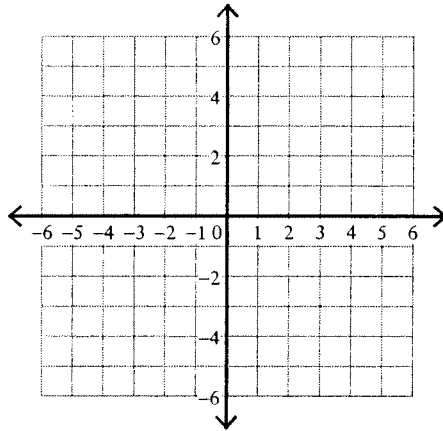
$$8) y = 0$$



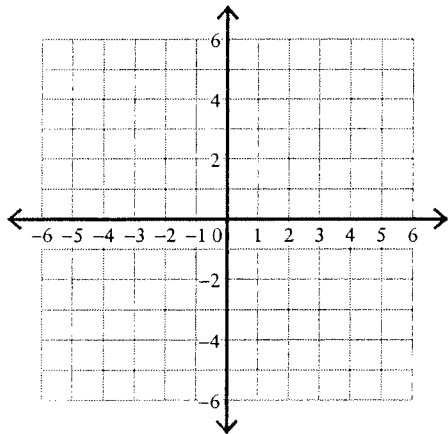
$$9) y = -\frac{2}{5}x - 4$$



$$10) y = 7x - 5$$



$$11) y = -6x + 5$$



$$12) y = -\frac{5}{2}x + 5$$

