

Summer Review Assignments for Geometry (select 9th and 10th Graders)

Dear Parents and Students:

Your teachers for next year are already making plans for our new school year, and we are all looking forward to seeing you in August.

These summer assignments are designed to be a review of the math skills expected of a student at Lanier Christian Academy entering the Geometry course. These math skills are very important to the success of your child this year. The summer review work will prepare students for the assessment, and allow teachers more instructional time and the ability to progress into new material sooner.

- **Print the assignment.**
- **Summer work is to be turned in on the first Monday of the first school week.**
- **Students must show their work and put a box around the answer.**
- **Parents, check the answers and mark incorrect answers with a colored pen, pencil, or marker. The answers are included.** Write the grade in the UPPER RIGHT corner (number correct divided by number of assigned problems times 100). **Also, please sign your name to indicate that the work was checked by you.** If your student misses 20% or more of the problems, your student needs to correct the missed problems to the right of the original work or on a separate piece of notebook paper. Staple all pages together. **Your student should make corrections until the grade is AT LEAST an 80.**

*****Points will be deducted if students do not show all their work & corrections, if parents do not grade and sign the work, and if the work turned in is below 80% correct.**

Thanks for working on this review and have a wonderful summer!

Name: _____

Geometry Summer Review Assignment #1

OPERATIONS WITH RATIONAL NUMBERS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Find the sum or difference.

1. $12\frac{2}{11} - 2\frac{3}{11}$

a. $9\frac{1}{12}$

b. $2\frac{1}{5}$

c. $9\frac{10}{11}$

d. $14\frac{5}{11}$

2. $\frac{8}{9} - \frac{1}{12}$

a. $\frac{89}{108}$

b. $\frac{22}{27}$

c. 1

d. $\frac{29}{36}$

3. $8\frac{5}{24} - \frac{5}{8}$

a. 8

b. $7\frac{7}{12}$

c. $8\frac{5}{6}$

d. $8\frac{7}{12}$

4. $145.68 + (-16.9)$

a. 162.58

b. 128.78

c. 2.332

d. 143.99

Geometry #1

Find the product.

5. $5\frac{3}{7} \cdot \left(-4\frac{3}{8}\right)$

a. $-23\frac{3}{4}$

b. $-11\frac{7}{8}$

c. $-20\frac{9}{56}$

d. $-20\frac{7}{8}$

Find the quotient.

6. $4\frac{1}{2} \div 1\frac{1}{8}$

a. $1\frac{7}{9}$

b. $2\frac{2}{3}$

c. 1

d. 4

Find the sum or difference. Simplify if possible.

7. $\frac{-7}{10} + \frac{-11}{15}$

8. $4\frac{2}{3} + 9\frac{3}{4}$

9. $\frac{1}{5} + \frac{6}{20}$

10. $192.520 - (-916.453)$

Find the product. Simplify if possible.

11. $6\frac{2}{3} \cdot 5\frac{1}{2}$

12. $-3\frac{1}{8} \cdot 1\frac{2}{3} \cdot \frac{3}{5}$

13. $\frac{18}{79}$

Geometry #1

Find the quotient. Simplify if possible.

14. $.5 \div \frac{1}{3}$

15. $2\frac{1}{2} \div 3$

16. $4\frac{1}{3} \div \left(-2\frac{1}{4}\right)$

17. $\frac{2}{5} \div \left(-\frac{3}{5}\right)$

Find the product or quotient. Simplify if possible.

18. $-5 \cdot 2.69$

19. $-49.53 \div (-3.9)$

20. $-0.68 \cdot (-0.2)$

Name: _____

Geometry Summer Review Assignment #2

PROBABILITY AND PERCENTS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

You may use a calculator on the percent problems, but you will not be allowed to use a calculator on the Test of Essential Skills.

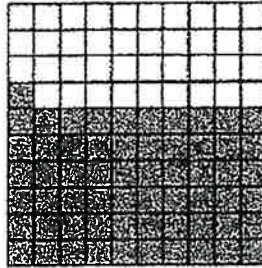
Multiple Choice

Identify the choice that best completes the statement or answers the question.

- After the introduction of a new soft drink, a taste test is conducted to see how it is being received. Of those who participated, 72 said they preferred the new soft drink, 64 preferred the old soft drink, and 64 could not tell any difference. What is the probability that a person in this survey, chosen at random, preferred the new soft drink?
 - $\frac{9}{25}$
 - $\frac{9}{8}$
 - $\frac{9}{16}$
 - $\frac{9}{17}$
- A coin is tossed and a die is rolled. What is the probability that the coin shows tails and the die shows an odd number?
 - $\frac{1}{6}$
 - $\frac{1}{8}$
 - $\frac{1}{9}$
 - $\frac{1}{4}$
- What number is 0.52% of 325?
 - 6.25
 - 1.69
 - 169
 - 625

Geometry #2

4. What is 310% of 94?
- a. 292.34
 - b. 291.4
 - c. 2923.4
 - d. 29.14
5. What percent of the large square is shaded?



- a. 29%
 - b. 39%
 - c. 61%
 - d. 71%
6. Mica and Carrie had dinner at Joe's Hangout. The bill totaled \$23.36 before tax. The service was excellent, so they decided to leave a 20% tip. What is 20% of \$23.36, to the nearest cent?
- a. \$0.97
 - b. \$1.17
 - c. \$4.67
 - d. \$4.47

Short Answer

7. You spin a spinner that is divided into eight equal sections labeled 1 through 8. Find the probability of landing on a multiple of 5.
8. A special deck of cards contains three each of the numbers from 1 to 8 and four each of the numbers 9 and 10. One card is drawn at random from the deck. What is the probability that the card is a number greater than 7?

Use a proportion to solve.

9. What number is 80% of 60?
10. 2565 is what percent of 450?
11. 38 is 0.02% of what number?
12. 312 is 65% of what number?
13. If you have read 45% of a 500-page book, how many pages have you read?

Geometry #2

14. Quincy wants to buy a bicycle that costs \$160.00. His parents say Quincy must raise 60% of the money himself. How much money must Quincy raise?
15. Sylvia teaches music to 63 students who are under 10 years of age. The students under 10 years of age make up 35% of all her music students. How many students does Sylvia teach music?
16. Luis makes 4% commission on his sales in a sporting goods store. For a \$70 purchase, how much commission does Luis earn?
17. Using a photocopier, Jenna enlarged a diagram by 180%. The dimensions of the final diagram were 9.00 centimeters by 7.20 centimeters. What were the dimensions of the original diagram?
18. A population of rabbits is 48% male. If there are 150 rabbits in the population, how many are male?
19. A waiter typically receives about 15% of a food bill as a tip. To earn a total of \$50 in tips, about how much must the total of all food bills be?
20. A customer left a tip of \$1.75 for a \$12.50 meal. What percent of the bill was the waiter's tip?

Name: _____

Geometry Summer Review Assignment #3

SIMPLIFYING AND EVALUATING EXPRESSIONS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Simplify the expression.

1. $\frac{4k}{11} - \frac{4k}{9}$

a. $-2k$

b. $\frac{k}{2}$

c. $-\frac{8k}{99}$

d. $-\frac{2k}{99}$

2. Evaluate $-1\frac{3}{5}b$ when $b = -\frac{9}{8}$.

a. $1\frac{1}{3}$

b. $-1\frac{1}{3}$

c. $1\frac{4}{5}$

d. $-1\frac{4}{5}$

3. Evaluate the expression $3.6y \div x$ when $x = 1.6$ and $y = 4$.

a. 9

b. 1.44

c. 14.4

d. 0.9

Evaluate the expression.

4. $4 \times (4.6 + 2.4) - 2$

a. 18.8

b. 20

c. 21.8

d. 26

5. What is the value of the expression $3^3 - 2^3 - 2 \times 3$?

a. 13

b. 25

c. -3

d. 51

Geometry #3

Use the Distributive Property to write an equivalent expression.

6. $3(4x - 7y)$
a. $12x - 21y$
b. $4x - 7y$
c. $12x - 7y$
d. $12x + 21y$
7. $-4(x - 4)$
a. $-4x - 4$
b. $-4x - 16$
c. $-4x + 4$
d. $-4x + 16$

Simplify.

8. $3x + 1 - 4x + 4$
a. $7x - 3$
b. $7x + 5$
c. $-x - 3$
d. $-x + 5$
9. $15(12 + w - 7)$
a. $15w + 75$
b. $w + 173$
c. $w + 75$
d. $15w + 173$
10. $7x + 6(x + 5) + 5(x + 2)$
a. $18x + 40$
b. $8x + 20$
c. $18x + 7$
d. $18x + 20$

11. Bill wants to simplify this expression.

$$5(3x - 2y) + 2(x + 2y) - 3(3x - 2y)$$

Which of the following expressions is equivalent to the expression above?

- a. $8x - 12y$
b. $8x - 8y$
c. $8xy$
d. $8x$

If possible, combine like terms to simplify the expression.

12. $-5x + 14x - x$
a. $9x^2 - x$
b. $70x^3$
c. can't be simplified
d. $8x$

Geometry #3

Short Answer

Simplify the expression.

13. $\frac{12}{5} + \frac{8}{9m}$

Evaluate the expression when $x = 1.6$ and $y = 4$.

14. $\frac{3y}{x+1.4}$

Evaluate the expression.

15. $24 \div [2 \cdot (3.7 - 1.7)]$

16. $7 \times 32 \div 2^3$

Simplify.

17. $4.2(2x+3y) + 2.1(3x-4y) - 2x$

If possible, combine like terms to simplify the expression.

18. $2rt+2r+7rt$

19. $-4(x+3)$

20. Simplify the expression $2(2-x) - 3x$.

21. Simplify the expression $-9[5x+6(-9+x)]$.

Other

22. On a test, Manny writes $\frac{25+3x}{4} + \frac{x}{6} = \frac{25+4x}{10}$. Is Manny's answer correct? *Explain* why or why not.

Name: _____

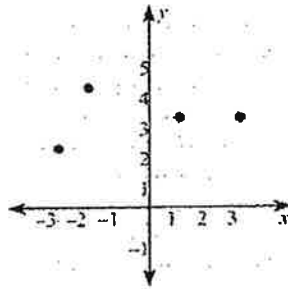
Geometry Summer Review Assignment #4

GRAPHING POINTS AND LINES

Please work these problems NEATLY and IN PENCIL on GRAPH paper. SHOW YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

1. Give the coordinates of each point in the coordinate plane.



2. Plot the points $(4, 0)$, $(-2, -3)$, $(3, 1)$, and $(-2, 2)$.

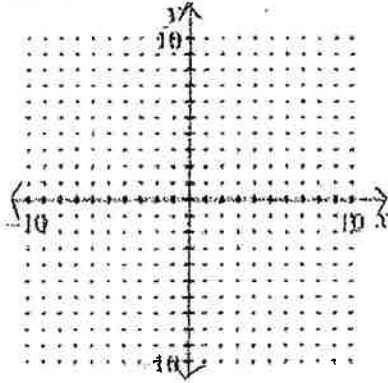


3. Which point, $\left(\frac{5}{2}, 3\right)$ or $\left(\frac{3}{2}, 20\right)$, is on the graph of $2x - \frac{2}{3}y = 3$?

Geometry #4

Graph the equation.

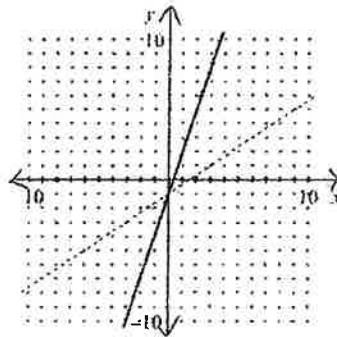
4. $4x - 8 = 0$



5. Sketch the line given by $4x + 3y = 12$. Label the x - and y -intercepts.



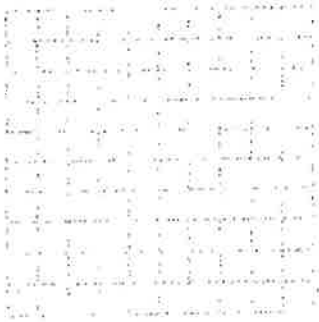
6. The solid line is the graph of the equation $y = 3x - 1$. The dashed line is the result of changing just one of the numbers, 3 or - 1, in the equation for the solid line.



Which number was changed and what was it changed to?

Geometry #4

7. Plot the points $(3, -5)$ and $(5, 4)$. Find the slope of the line passing through the points.



8. Find the slope of the line that passes through the points $(-1, -3)$ and $(-3, -3)$.

Find the x -intercept.

9. $4x + 5y = 8$

Find the y -intercept.

10. $4y + 9 = 5x$

Find the slope of the line passing through the points.

11. $(-10, -7), (1, -2)$

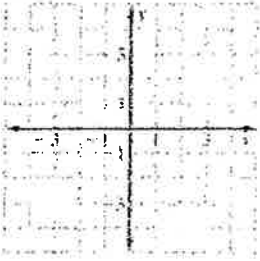
Write the equation in slope-intercept form. Then graph the equation.

12. $6x - 4y = 3$



Geometry #4

13. $2y + 5x = 10$



Decide whether the graphs of the two functions are parallel lines.

14. $f(x) = 15x + 4$, $f(x) = 5x + 1$

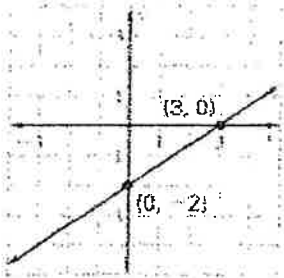
Write an equation of the line in slope-intercept form.

15. The slope is -3 ; the y -intercept is 5 .

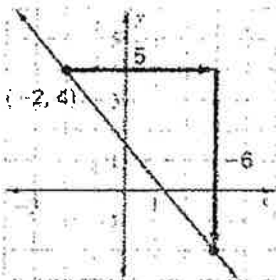
16. The slope is 4 ; the y -intercept is 0 .

Write an equation of the line shown in the graph.

17.



18.



Geometry #4

Write an equation of the line that passes through the point and has the given slope. Write the equation in slope-intercept form.

19. $(3, 2)$, $m = \frac{1}{2}$

Write an equation of the line that is parallel to the given line and passes through the given point.

20. $y = -3x + 2$, $(2, 3)$

21. Write an equation of a line that is perpendicular to $y = -3x + 5$ and passes through $(4, 3)$.

Write the equations in standard form of the horizontal and vertical lines that pass through the point.

22. $(2, 4)$

Name: _____

Geometry Summer Review Assignment #5

SOLVING LINEAR EQUATIONS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW ALL STEPS OF YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

Solve the equation.

1. $\frac{7}{2}x = 28$
2. $2x - (-5) = 23$
3. $\frac{3}{15}y + 15 = 0$
4. $-3n + 18 + 5n = 38$
5. $\frac{x}{2} + \frac{x}{4} = 5$
6. $\frac{9x}{3} + 11x = 28$
7. $\frac{25x}{5} - 7x = 12$
8. $-\frac{21x}{7} - 5x = 24$
9. $5n - 2(n - 2) = -11$
10. $8x = 44$
11. $4n - 2(3 - n) = -13$
12. $5n - 2(2 - n) = -7$
13. $\frac{1}{2}(y + 1) = 9$
14. $\frac{1}{4}(3y + 2) = 7$
15. $3 - 4z = -5 + 8z$

Geometry #5

16. $5x + 14 - 2x = 9 - (4x + 2)$

17. $7x - 29 - 21x = 3 - (12 + 2x)$

Solve the proportion.

18. $\frac{8}{2} = \frac{2}{p}$

19. $\frac{18}{x-2} = \frac{4}{3}$

20. $\frac{3}{x-4} = \frac{5}{x}$

Name: _____

Geometry Summer Review Assignment #6

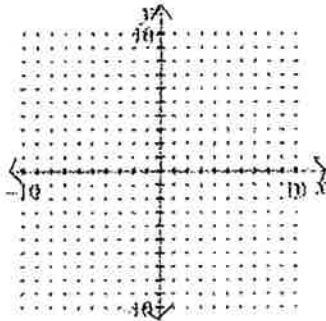
GRAPHING LINEAR INEQUALITIES

Please graph these inequalities **NEATLY** and **IN PENCIL** on GRAPH paper. Use a ruler to draw straight lines, and shade the correct regions with either colored pencils or highlighters.

Graph the system of inequalities.

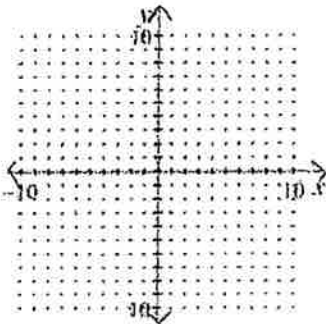
1. $y \geq -2x - 1$

$$y < -2$$



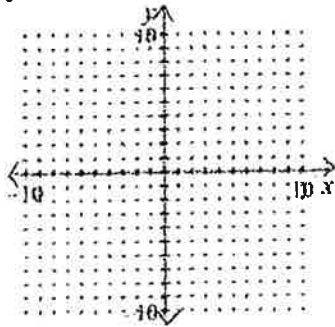
2. $y \geq x - 4$

$$y \leq -2x - 8$$

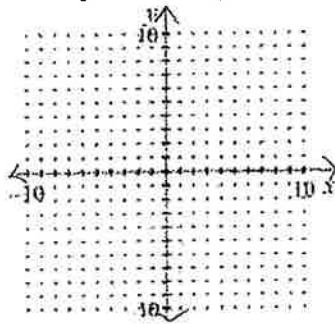


Geometry #6

3. $y \leq -2x - 1$
 $y \leq 3$

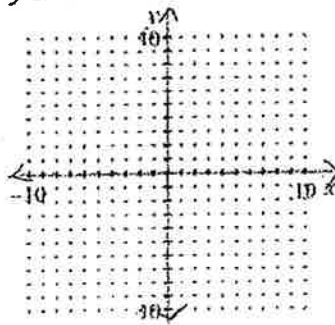


4. $2x + 5y \geq 10$, $x \leq y$, $x \leq 8$



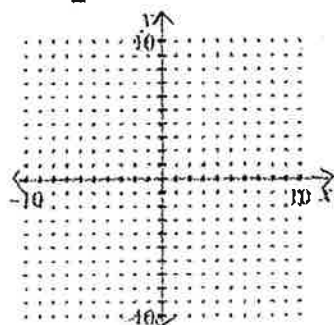
Graph the inequality.

5. $y \leq 4x + 4$

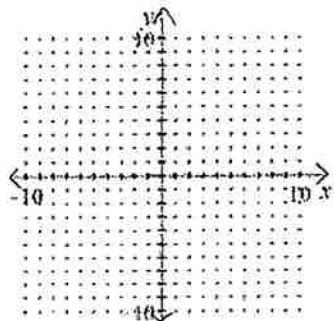


Geometry #6

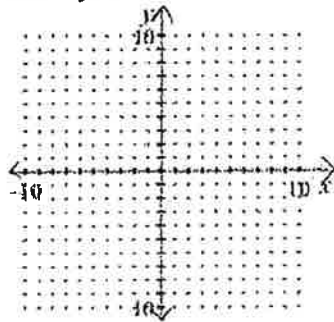
6. $y \geq -\frac{1}{2}x$



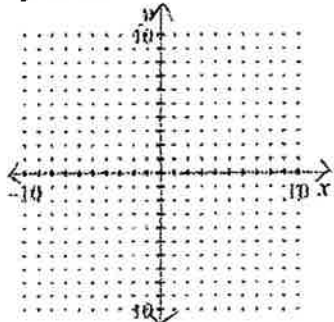
7. Graph $y \geq -\frac{2}{3}x$



8. $2x - 7y > -14$

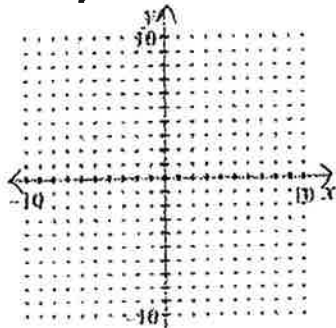


9. $-y \geq 2x - 7$

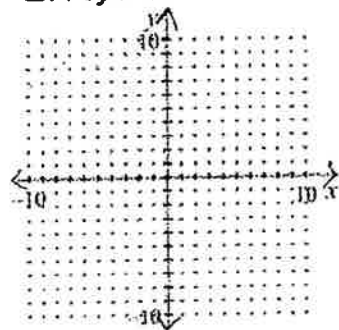


Geometry #6

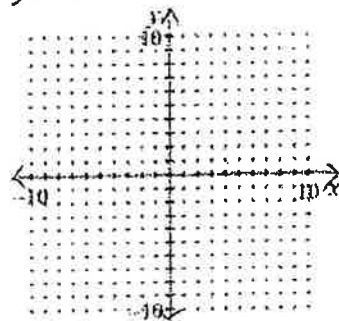
10. $3x - 2y \leq 6$



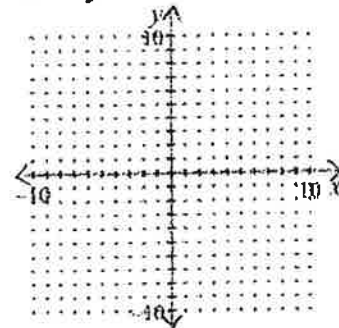
11. $-2x + 3y > 6$



12. $y \leq 1$

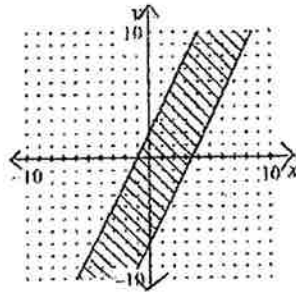


13. $2x - 3y \leq 6$



Geometry #6

14. Write a system of linear inequalities that defines the shaded region.



Name: _____

Geometry Summer Review Assignment #7

SYSTEMS OF LINEAR EQUATIONS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

Solve the system using substitution.

1. $x+4y=-1$
 $2x-y=7$

2. $3x-y=15$
 $x+2y=-2$

3. $x-4y=6$
 $2x+y=-4$

4. $-2x+y=-1$
 $3x=9-y$

Solve the system by elimination.

5. $4x+5y=6$
 $3x-5y=22$

6. $-3x-3y=9$
 $3x+8y=9$

7. $2x+4y=-3$
 $4x-4y=6$

8. $3x-2y=3$
 $6x+2y=3$

Geometry #7

Solve the linear system.

9. $3x+2y=-7$
 $x+2y=-9$

10. $9x-7y=-77$
 $-3x-9y=3$

11. $4x+3y=-2$
 $3x+2y=-3$

12. $5x-2y=3$
 $-x+6y=-2$

13. $6x-4y=-1$
 $2x+5y=1$

14. $2x-6y=-18$
 $3x+7y=37$

15. $3x-4y=21$
 $4x+2y=6$

16. $3x+2y=-5$
 $4x-3y=16$

Name: _____

Geometry Summer Review Assignment #8

PROPERTIES OF EXPONENTS AND SIMPLIFYING RADICAL EXPRESSIONS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

Do not use a calculator. You will not be allowed to use a calculator on the Test of Essential Skills.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Simplify the expression. Write your answer as a power.

1. $(-3)^4 \cdot (-3)^4$

- a. $(-3)^8$
b. $(-3)^0$

- c. $(-3)^{16}$
d. -3^{16}

2. $7^5 \cdot 7^6$

- a. 49^{11}
b. 49^{30}

- c. 7^{30}
d. 7^{11}

3. $\frac{(-6)^{12}}{(-6)^3}$

- a. $(-6)^4$
b. -6^4

- c. $(-6)^9$
d. $(-6)^{15}$

Simplify the expression.

4. $\frac{e^4}{e^3}$

- a. none of these
b. e

- c. e^{12}
d. e^7

5. $5a^3b^4 \cdot 5^2a^3b^5$

- a. $5^2a^3b^9$
b. $5a^9b^{20}$

- c. $5^3a^6b^9$
d. $5^3a^9b^{20}$

Geometry #8

6. $\frac{m^9 p^{16}}{m^3 p^{12}}$

a. $m^{12} p^{28}$

b. mp^4

c. $\frac{1}{m^6 p^4}$

d. $m^6 p^4$

Simplify. Write the expression using only positive exponents.

7. $x^{-2} \cdot x^5$

a. $\frac{1}{x^{10}}$

b. x^{10}

c. $\frac{1}{x^3}$

d. x^3

8. $\frac{x^{-5}}{x^9}$

a. $\frac{1}{x^{14}}$

b. x^4

c. $\frac{1}{x^4}$

d. x^{14}

Evaluate the expression.

9. $\sqrt{121}$

a. 121

b. 110

c. 1.1

d. 11

10. $\sqrt{\frac{49}{64}}$

a. $\frac{7}{64}$

b. $\frac{7}{32}$

c. $\frac{7}{8}$

d. $\frac{9}{10}$

Geometry #8

Approximate the square root to the nearest whole number.

11. $\sqrt{45}$

- a. 70
- b. 7

- c. 9
- d. 4.5

Simplify.

12. $\sqrt{300}$

- a. $\sqrt{30}$
- b. $10\sqrt{3}$

- c. $10\sqrt{30}$
- d. $3\sqrt{10}$

13. $\sqrt{12} \cdot \sqrt{10}$

- a. $4\sqrt{30}$
- b. $3\sqrt{20}$

- c. $2\sqrt{30}$
- d. $\sqrt{120}$

14. $11\sqrt{25}$

- a. 16
- b. 27.5

- c. 137.5
- d. 55

15. $\sqrt{30} \cdot \sqrt{12}$

- a. $12\sqrt{10}$
- b. $6\sqrt{10}$

- c. $9\sqrt{20}$
- d. $3\sqrt{40}$

16. $4\sqrt{3} - \sqrt{64} + 6\sqrt{27}$

- a. $22\sqrt{3} - 8$
- b. $9\sqrt{94}$

- c. $22\sqrt{3} - 8 + 6\sqrt{27}$
- d. $14\sqrt{3}$

17. Identify the simplified form of the expression $\sqrt{45}$.

- a. $15\sqrt{3}$
- b. $3\sqrt{15}$

- c. $3\sqrt{5}$
- d. $5\sqrt{3}$

18. Which is the simplified form of $8\sqrt{5} - (-7\sqrt{5}) - 4\sqrt{5}$?

- a. $\sqrt{55}$
- b. $19\sqrt{5}$

- c. $11\sqrt{5}$
- d. 55

Geometry #8

Short Answer

Simplify the expression.

19. $\frac{5x^7y^8 \cdot 6xy^3}{3x^2y}$

Evaluate the expression.

20. 4^0

Name: _____

Geometry Summer Review Assignment #9

MULTIPLYING AND FACTORING POLYNOMIALS

Please work these problems NEATLY and IN PENCIL on notebook paper. SHOW YOUR WORK!

Find the product.

1. $(2p+7)(2p-7)$

2. $(4x+7y)^2$

3. $(4x+2)(6x^2)$

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

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

6. $(x-3)(x^2+x+1)$

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

8. $(x-8)^2$

Factor the expression.

9. $x^2 + 11x + 30$

10. $x^2 - 3x - 40$

11. $x^2 - 9x + 14$

12. $x^2 + 2x - 35$

13. $5x^2 + 16x + 3$

14. $12x^2 + 14x + 4$

15. $x^2 - 16$

16. $x^2 - 12x + 36$

17. $x^2 + 10x + 25$

18. $3x^3 + 9x^2 + 2x$

Geometry #9

19. $x^3 - 3x^2 + 2x - 6$

20. $x^3 - x^2 + 5x - 5$



Geometry Summer Review Assignment #1 Answer Section

MULTIPLE CHOICE

1. C
2. D
3. B
4. B
5. A
6. D

SHORT ANSWER

7. $-1\frac{13}{30}$
8. $14\frac{5}{12}$
9. $\frac{1}{2}$
10. 1108.973
11. $36\frac{2}{3}$
12. $-3\frac{1}{8}$
13. $\frac{8}{63}$
14. 15
15. $\frac{5}{6}$
16. $-1\frac{25}{27}$
17. $-\frac{2}{3}$
18. - 13.45
19. 12.7
20. 0.136

Geometry Summer Review Assignment #2
Answer Section

MULTIPLE CHOICE

1. A
2. D
3. B
4. B
5. C
6. C

SHORT ANSWER

7. $\frac{1}{8}$
8. $\frac{11}{32}$
9. 48
10. 570%
11. 190,000
12. 480
13. 225
14. \$96
15. 180
16. \$2.80
17. 5 cm \times 4 cm
18. 72
19. \$333.33
20. 14%

Geometry Summer Review Assignment #3
Answer Section

MULTIPLE CHOICE

1. C
2. C
3. A
4. D
5. A
6. A
7. D
8. D
9. A
10. A
11. D
12. D

SHORT ANSWER

13. $\frac{40 + 108m}{45m}$
14. 4
15. 6
16. 28
17. $12.7x + 4.2y$
18. $9rt + 2r$
19. $-4x - 12$
20. $4 - 5x$
21. $-99x + 486$

OTHER

22. No, Manny is not correct. He added the fractions without first finding a common denominator. Manny must rewrite each term using the least common denominator of 12. So,

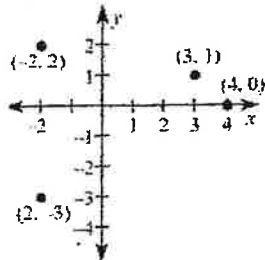
$$\frac{25+3x}{4} + \frac{x}{6} = \frac{75+9x}{12} + \frac{2x}{12} = \frac{75+11x}{12}$$

Geometry Summer Review Assignment #4

Answer Section

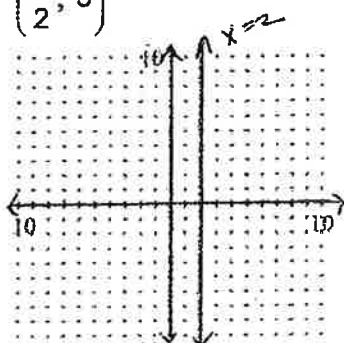
SHORT ANSWER

1. $(1, 3)$, $(-3, 2)$, $(3, 3)$, $(-2, 4)$

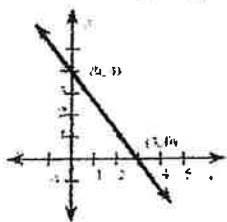


2.

3. $(\frac{5}{2}, 3)$



4.

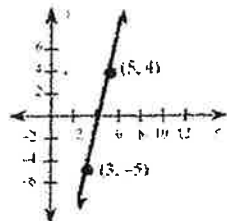


5.

6. The 3 was changed to $\frac{2}{3}$.

7. Slope: $\frac{9}{2}$

8.



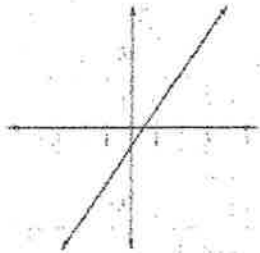
8. 0
no x-intercept

9. 2

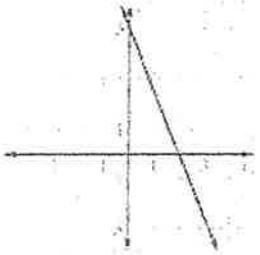
10. $-\frac{9}{4}$

11. $m = \frac{5}{11}$

12. $y = \frac{3}{2}x - \frac{3}{4}$



13. $y = -\frac{5}{2}x + 5$



14. no

15. $y = -3x + 5$

16. $y = 4x$

17. $y = \frac{2}{3}x - 2$

18. $y = -\frac{6}{5}x + \frac{8}{5}$

19. $y = \frac{1}{2}x + \frac{1}{2}$

20. $y = -3x + 9$

21. $y = \frac{1}{3}x + \frac{5}{3}$

22. $x = 2, y = 4$

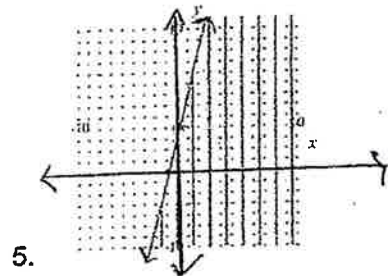
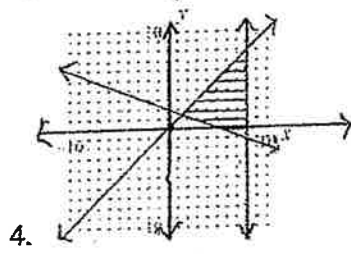
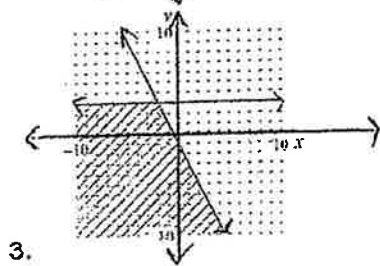
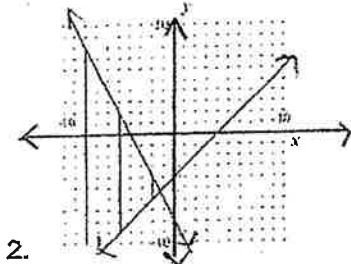
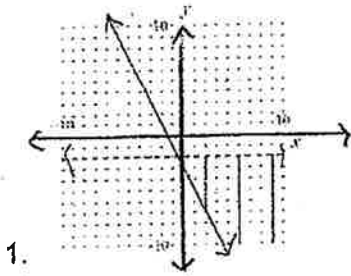
Geometry Summer Review Assignment #5
Answer Section**SHORT ANSWER**

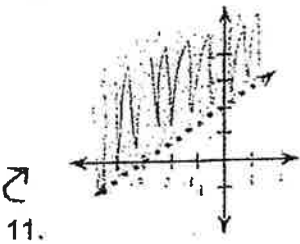
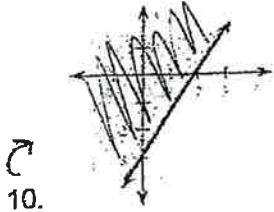
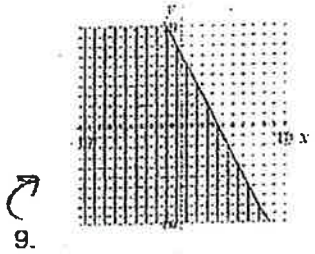
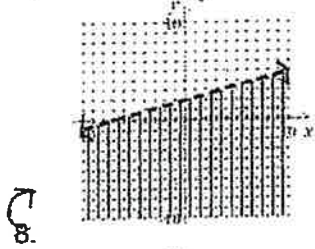
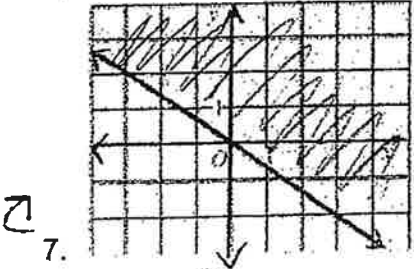
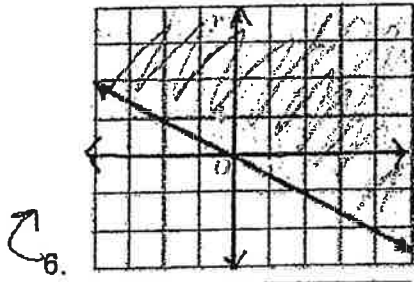
1. 8
2. $\frac{1}{2}$
3. - 75
4. 10
5. $\frac{20}{3}$
6. 2
7. -6
8. -3
9. - 5
10. $\frac{11}{2}$
11. $-\frac{7}{6}$
12. $-\frac{3}{7}$
13. 17
14. $\frac{26}{3}$
15. $\frac{2}{3}$
16. - 1
17. $-\frac{5}{3}$
18. $\frac{1}{2}$
19. $\frac{31}{2}$
20. 10

Geometry Summer Review Assignment #6

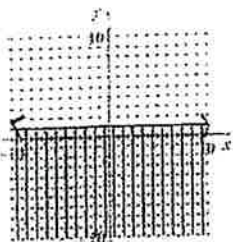
Answer Section

SHORT ANSWER

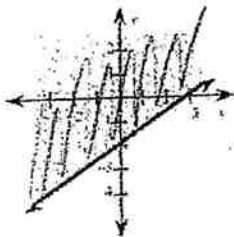




12.



13.



14. $y \leq 2x + 2$
 $y \geq 2x - 7$

Geometry Summer Review Assignment #7

Answer Section

SHORT ANSWER

1. $(3, -1)$
2. $(4, -3)$
3. $(-\frac{10}{9}, -\frac{16}{9})$
4. $(2, 3)$
5. $(4, -2)$
6. $(-\frac{33}{5}, \frac{18}{5})$
7. $(\frac{1}{2}, -1)$
8. $(\frac{2}{3}, -\frac{1}{2})$
9. $(1, -5)$
10. $(-7, 2)$
11. $(-5, 6)$
12. $(\frac{1}{2}, -\frac{1}{4})$
13. $(-\frac{1}{38}, \frac{4}{19})$
14. $(3, 4)$
15. $(3, -3)$
16. $(1, -4)$

Geometry Summer Review Assignment #8
Answer Section

MULTIPLE CHOICE

1. A
2. D
3. C
4. B
5. C
6. D
7. D
8. A
9. D
10. C
11. B
12. B
13. C
14. D
15. B
16. A
17. C
18. C

SHORT ANSWER

19. $10x^6y^{10}$

20. 1

Geometry Summer Review Assignment #9

Answer Section

SHORT ANSWER

1. $4p^2 - 49$
2. $16x^2 + 56xy + 49y^2$
3. $24x^3 + 12x^2$
4. $x^2 - 9x + 20$
5. $4x^2 + 3x - 10$
6. $x^3 - 2x^2 - 2x - 3$
7. $x^2 - 25$
8. $x^2 - 16x + 64$
9. $(x+6)(x+5)$
10. $(x-8)(x+5)$
11. $(x-7)(x-2)$
12. $(x+7)(x-5)$
13. $(5x+1)(x+3)$
14. $2(3x+2)(2x+1)$
15. $(x+4)(x-4)$
16. $(x-6)^2$
17. $(x+5)^2$
18. $x(3x^2 + 9x + 2)$
19. $(x^2 + 2)(x-3)$
20. $(x^2 + 5)(x-1)$

