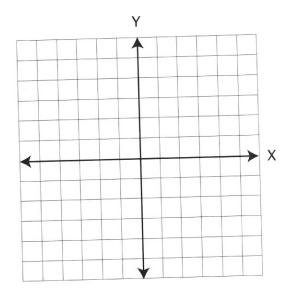
Follow the steps to graph each inequality.

For #1-4
$$-2X + Y \le -3$$

- 1. Graph -2X + Y = -3.
- 2. Will this be a solid line or a dotted line?
- 3. Choose two points, one on each side of the line.

 (___, ___) (___, ___)
- 4. Shade in the graph.

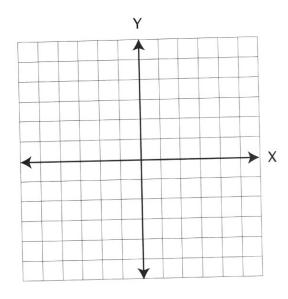


For #5-8
$$3Y \le 2X - 9$$

- 5. Graph 3Y = 2X 9.
- 6. Will this be a solid line or a dotted line?
- 7. Choose two points, one on each side of the line.

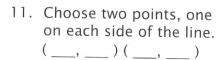
 (___, ___) (___, ___)

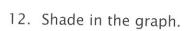
8. Shade in the graph.

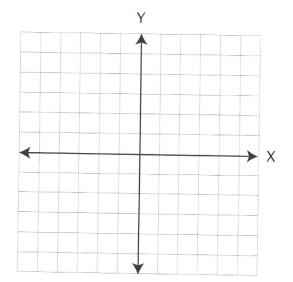


For #9-12 -X + 5Y > 5

- 9. Graph -X + 5Y = 5.
- 10. Will this be a solid line or a dotted line?







Write each inequality in the slope-intercept form.

13.
$$-3X + Y < -5$$

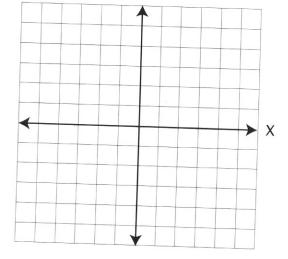
14.
$$3X - Y > 5$$

15. For what operations should the sign of an inequality be reversed?

Follow the steps to graph each inequality.

For #1-5 -Y > -2X - 1

- 1. Graph Y = 2X + 1.
- 2. Will this be a solid line or a dotted line?
- Choose two points, one on each side of the line.
 (___, ___)(___, ___)
- 4. Shade in the graph.

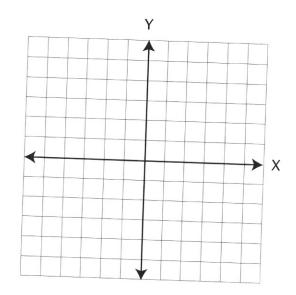


Υ

5. Is the point (3, -2) a solution of the inequality?

For #6-9 $Y \le X - 3$

- 6. Graph Y = X 3.
- 7. Will this be a solid line or a dotted line?
- 8. Choose two points, one on each side of the line.
- 9. Shade in the graph.



10. For what operations must the sign of an inequality be reversed?

SYSTEMATIC REVIEW 12C

Answer the questions.

- 11. What fraction of a pound is an ounce?
- 12. What fraction of a ton is a pound?
- 13. Change to the slope-intercept form: 3X 2Y = 5.
- 14. What is the slope of a line parallel to the line in #13?
- 15. What is the slope of a line perpendicular to the line in #13?
- 16. Write the equation for a line with a slope of 2 that passes through the point (0, -2).
- 17. 16% of 242 =
- 18. The point (-2, -2) lies in which quadrant?



QUICK REVIEW

Ratios are useful in solving some kinds of measurement problems.

EXAMPLE 1 Since 1 mile = 1.6 km, 5 miles = ____ km. Using cross-multiplication
$$(1)(?) = (1.6)(5) \rightarrow ? = 8$$
, so answer is 8 km.

$$\frac{1}{1.6} = \frac{?}{1}$$

Since 1 mile = 1.6 km, ____ miles = 1 km. **EXAMPLE 2** Using cross-multiplication $(1)(1) = (1.6)(?) \rightarrow 1 \div 1.6 = ?$, so answer is .625 km.

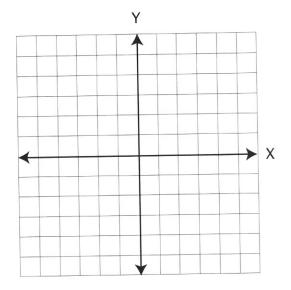
- Since 1 mile = 1.6 km, 10 miles = ____ km. 19.
- Since 1 mile = 1.6 km, ____ miles = 10 km. 20.

Follow the steps to graph each inequality.

For #1-4 Y + 2 < 0

- 1. Graph Y + 2 = 0.
- 2. Will this be a solid line or a dotted line?
- 3. Choose two points, one on each side of the line.

 (___, ___) (___, ___)
- 4. Shade in the graph.

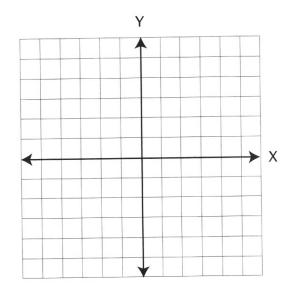


5. Write 4Y + 8 < 0 in slope-intercept form.

For #6-9 Y - 3 > 1/3 X - 1

- 6. Graph Y 3 = 1/3 X 1.
- 7. Will this be a solid line or a dotted line?
- 8. Choose two points, one on each side of the line.

 (___, ___) (___, ___)
- 9. Shade in the graph.



10. Write -3Y > -6X + 3 in slope-intercept form.

SYSTEMATIC REVIEW 12D

Answer the questions.

- 11. What fraction of an hour is a minute?
- 12. What percent of a week is a day?
- 13. Since 1 pound = .45 kg, $10 lb = _{---} kg$.
- 14. Since 1 pound = .45 kg, ____ lb = 2 kg.
- 15. What is the slope of a line parallel to 6Y 4X 3 = 0?
- 16. What is the slope of a line perpendicular to the line in #15?
- 17. Write the equation for a line with a slope of -1/2 that passes through the point (1,1).
- 18. Change 9/25 to a decimal and to a percent.
- 19. Write in algebraic terms: six times a number, minus five times the number, plus eight.
- 20. Replace the number in #19 with 10 and find the value of the expression.