

QUARTER 1 EXAM STUDY GUIDE

UNIT 1 REVIEW

After you complete each concept → give yourself a rating → 😊 😐 😞

This will remind you which concepts you need to revisit before the midterm. **Exam is Friday, October 16th!**

Concept: Order of Operations: 😊 😐 😞

1. $10 - 5 \div 5 \times 2$

2. $[(10 - 5)^2 + 3] \div 2$

Concept: Number Sets 😊 😐 😞

3. Classify the following Numbers (Counting (natural), Whole, Integers, Rational, Irrational)

a. -5

b. $\frac{3}{4}$

b. $\sqrt{3}$

Concept: Solving Equations: 😊 😐 😞

4. $5 - 3x = -19$

5. $3p + 7 - 6p = 21 - 3p$

6. $-4(x - 2) = -6x + 10$

Concept: Solving Proportions: 😊 😐 😞

7. $\frac{9}{2} = \frac{m}{12}$

8. $-\frac{3}{4} = \frac{x}{2x - 5}$

Concept: Solving Percent Problems: ☺ ☹ ☹

9. What is 15% of 30?

10. 80 is 30% of what number?

Concept: Solving Literal Equations: ☺ ☹ ☹

11. Solve for y in terms of x :

$$-2x - 4y = 16$$

12. Solve for y in terms of x :

$$3y + 6x = 12$$

Concept: Applications of Linear Equations: ☺ ☹ ☹

13. The Apple store is having a gigantic sale!!! The new iPhone 7 costs \$249.99 and is 45% off today only!

a. How much did you SAVE on the iPhone 7?

b. How much did you PAY for the iPhone 7?



UNIT 2 REVIEW

Concept: Solve Absolute Value Equations: ☺ ☹ ☹

1. $|5 - 9x| - 5 = 9$

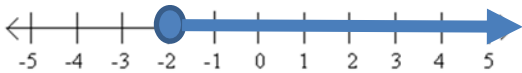
2. $|6 - 3x| - 7 = -9$

3. $-3|2 - 9x| + 5 = -70$

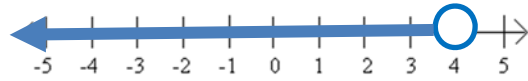
Concept: Solve Linear Inequalities and Graph: ☺ ☹ ☹

Write the inequality for the graph given:

4. _____

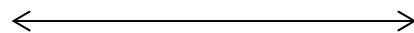
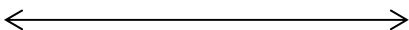


5. _____



6. $2x - 5 + x > 3x + 9$

7. $-x + 3(1 - 4x) \leq -75$



$$8. 6 - 3r > -9$$

$$9. -(3 - 2p) > 2p - 8$$

STEPS FOR GETTING READY FOR THE MIDTERM:

1. First – have you graded and corrected your study guide???



Check my website (hinsdalemath.weebly.com) for the answer key!

2. Go back through you packet and pick the top 3 concepts you had the most trouble with:

1. _____
2. _____
3. _____



3. Now go back through your notes, the website, and your quizzes and find similar problems to try.



4. Consider “retaking” old quizzes (or at least problems that you may have missed the first time)

5. Still Stuck? Call a friend, open your textbook, visit the website, and ASK YOUR TEACHER!

