

MATHQUEST CHAPTER 6 PART 2

INTEGERS AND RATIONAL NUMBERS

1. After reading the Chapter 6 Objectives, summarize them in your own words.

SECTION 6-4-COMPARING AND ORDERING RATIONAL NUMBERS

2. From the **Comparing and Ordering Rational Numbers (2nd video)**, what is the order of the last set of rational numbers?

EXAMPLES

Compare using $>$, $<$, or $=$.

3. $-6.1\overline{2} \bigcirc -6.18$

5. $-2.\overline{7} \bigcirc -3.5$

4. $-\frac{1}{3} \bigcirc -\frac{2}{6}$

6. $-2.\overline{9} \bigcirc -2\frac{4}{5}$

Order the set of rational numbers from least to greatest.

7. $\frac{32}{4}$, -8.2 , $-8\frac{6}{20}$

8. 5.4 , -5.19 , $-5\frac{7}{8}$

9. In 3 sentences, explain or summarize Section 6-4.

SECTION 6-5-INEQUALITIES

10. From the **Writing Inequalities video (1st video)**, what is the answer to part d?

VOCABULARY

11. inequality-

graph of an inequality-

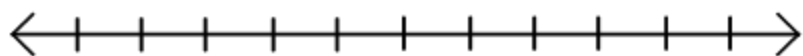
solution of an inequality-

12. What are the inequality symbols?

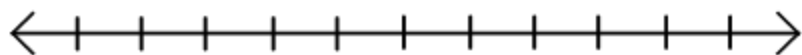
EXAMPLES

Write and graph an inequality for each situation.

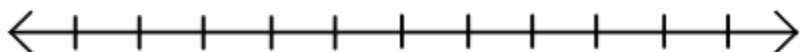
13. No more than 45 students work in the car-wash fundraiser.



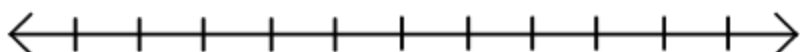
14. There are more than 15 ladybugs on the windowsill.



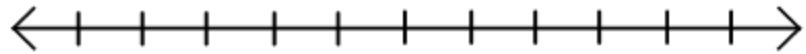
15. Four people or fewer are allowed on the ride at once.



16. David's account balance shows a debt of at least \$40



17. You must deposit a least \$20 to open a bank account.



18. In 3 sentences, explain or summarize Section 6-5.

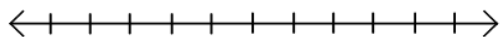
SECTION 6-6-SOLVING ONE-STEP INEQUALITIES

19. From the **One-Step Inequalities video (1st video)**, what is the answer with graph of the last example?

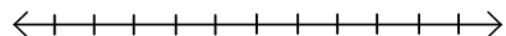
EXAMPLES

Solve and graph each inequality.

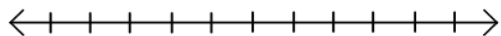
20. $x - 2 \geq 5$



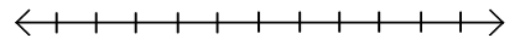
23. $z - 5 < 0$



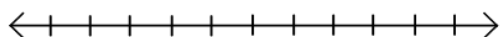
21. $r + 5 \leq 7$



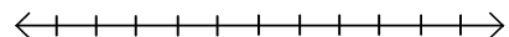
24. $5 + g > 62$



22. $7 + f \geq 13$



25. $y + 11 \leq 1$



26. In 3 sentences, summarize or explain Section 6-6.