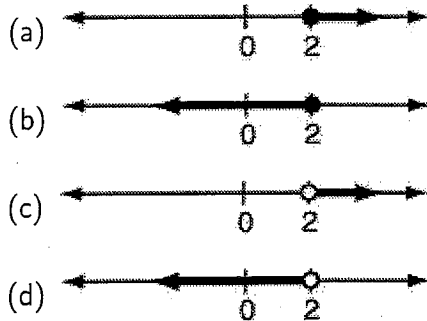


Review Worksheet #16

Section 1 - Multiple Choice

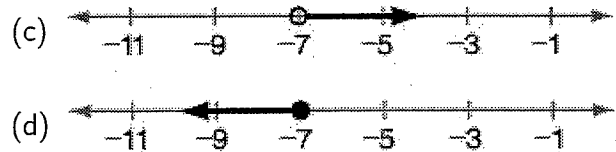
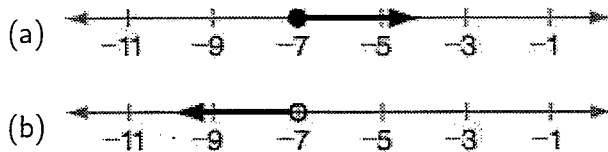
1) Which graph below represents the inequality $2 > x$?



2) Six is less than the sum of a number (x) and five. How is this statement written algebraically?

- (a) $x + 5 - 6$
- (b) $6 = x + 5$
- (c) $6 < x + 5$
- (d) $6 = 5 - x$

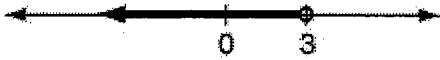
3) Which graph represents " y is less than -7 " ?



4) What is the greatest possible pair of integers such that one integer is twice the other and their sum is less than 30?

- (a) 7 and 14
- (b) 8 and 16
- (c) 9 and 18
- (d) 10 and 20

5) Which inequality does the following graph represent?



- (a) $x \geq 3$
- (b) $x \leq 3$
- (c) $x > 3$
- (d) $x < 3$

6) Which of the following is a graph of the inequality $x \leq -5$?

- (a)

A number line with tick marks at -5 and 0. A solid dot is placed at -5, and a thick line with an arrowhead extends to the left from this dot.
- (b)

A number line with tick marks at -5 and 0. A solid dot is placed at -5, and a thick line with an arrowhead extends to the right from this dot.
- (c)

A number line with tick marks at -5 and 0. An open circle is placed at -5, and a thick line with an arrowhead extends to the left from this circle.
- (d)

A number line with tick marks at -5 and 0. An open circle is placed at -5, and a thick line with an arrowhead extends to the right from this circle.

7) Solve the inequality below.

$$7x < -35$$

- (a) $x > -5$
- (b) $x < -5$
- (c) $x > 5$
- (d) $x < 5$

8)

The following graph represents which inequality below?



- (a) $x > -2$
- (b) $x < -2$
- (c) $x \geq -2$
- (d) $x \leq -2$

9) Solve the inequality below.

$$-20 > -3x + 1$$

- (a) $x > 7$
- (b) $x < 7$
- (c) $x > -7$
- (d) $x < -7$

10) Solve the inequality below.

$$48 < -4x$$

- (a) $x > -12$
- (b) $x < -12$
- (c) $x > 12$
- (d) $x < 12$

11) Solve the inequality below.

$$3x + 3 < 27$$

- (a) $x > 9$
- (b) $x < 8$
- (c) $x < 9$
- (d) $x > 10$

12) Which symbol shows the correct comparison between the two numbers?

$$-7 \text{ --- } 5$$

- (a) $>$
- (b) $=$
- (c) $<$
- (d) \leq

13) Miguel, Debbie, Tori, and Fallon entered a cookie-baking contest in their cooking class to see who had the best recipe. One hundred people tasted a piece of each of the contestants' cookies. The chart below tells what fraction of the students voted for each contestant's cookie. Who received the most votes?

Student	Fraction of the Vote
Miguel	$\frac{3}{4}$
Debbie	$\frac{4}{6}$
Tori	$\frac{5}{8}$
Fallon	$\frac{8}{12}$

- (a) Miguel
- (b) Debbie
- (c) Tori
- (d) Fallon

14) Tania must correctly order $-\frac{2}{3}$, $-\frac{3}{4}$, and $-\frac{4}{5}$ on a number line. Which of the following is the correct order from least to greatest?

- (a) $-\frac{2}{3}, -\frac{3}{4}, -\frac{4}{5}$
 (b) $-\frac{4}{5}, -\frac{3}{4}, -\frac{2}{3}$
 (c) $-\frac{4}{5}, -\frac{2}{3}, -\frac{3}{4}$
 (d) $-\frac{3}{4}, -\frac{2}{3}, -\frac{4}{5}$

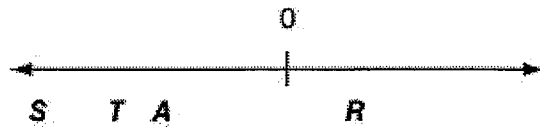
15) Which set of numbers is arranged largest to smallest?

- (a) $-6, -12, -21, -24, -39$
 (b) $-39, -24, -21, -12, -6$
 (c) $\frac{1}{6}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
 (d) $-\frac{1}{2}, -\frac{1}{3}, -\frac{1}{4}, -\frac{1}{5}, -\frac{1}{6}$

16) Which set of numbers is arranged smallest to greatest?

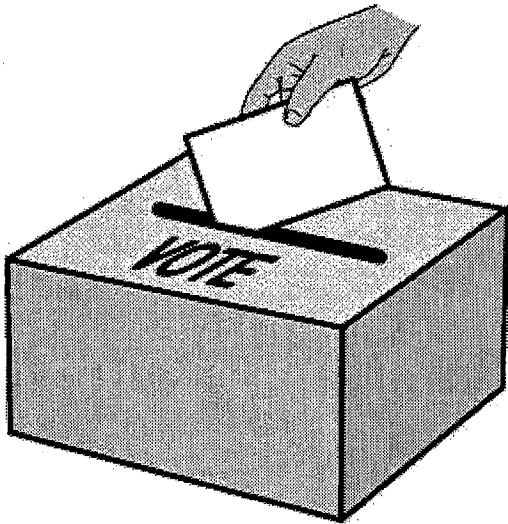
- (a) $-\frac{6}{8}, \frac{4}{7}, 0, \frac{3}{4}, \frac{1}{2}$
 (b) $\frac{3}{4}, \frac{4}{7}, \frac{1}{2}, 0, -\frac{6}{8}$
 (c) $-\frac{6}{8}, 0, \frac{1}{2}, \frac{4}{7}, \frac{3}{4}$
 (d) $-\frac{6}{8}, 0, \frac{4}{7}, \frac{1}{2}, \frac{3}{4}$

17) Which of the following is true?



- (a) $S > T$
 (b) $A > 0$
 (c) $R < 0$
 (d) $T < A$

18) Frank, Kaitlyn, and Antonio were running for class president. The entire school voted. Frank received $\frac{9}{24}$ of the vote, Kaitlyn received $\frac{3}{8}$ of the vote, and Antonio received $\frac{3}{12}$ of the vote. Who received the most votes?



- (a) Antonio
- (b) Frank
- (c) Antonio and Kaitlyn tied.
- (d) Kaitlyn and Frank tied.

19) The principal of Kennedy Junior High took a survey of her 564 students to find out which elective class the students enjoyed the most.

Subject	Fraction of Students
Chorus	$\frac{2}{3}$
Computers	$\frac{3}{4}$
Band	$\frac{4}{6}$
Foreign Language	$\frac{7}{9}$

Based on the chart, which class did the students enjoy the most?

- (a) Chorus
- (b) Computers
- (c) Band
- (d) Foreign Language

20) Which fractions are ordered from least to greatest?

- (a) $\frac{2}{3}, \frac{3}{4}, \frac{2}{5}, \frac{3}{9}$
- (b) $\frac{2}{3}, \frac{2}{5}, \frac{3}{4}, \frac{3}{9}$
- (c) $\frac{3}{9}, \frac{2}{5}, \frac{2}{3}, \frac{3}{4}$
- (d) $\frac{3}{9}, \frac{2}{5}, \frac{3}{4}, \frac{2}{3}$