Name _Reynolds_ Date _____ Class _____

Rational Explorations: Numbers and their Opposites

Practice test

Choose the best answer.

1. Write 93.08 as a mixed number in simplest form. $93\frac{8}{100} = 93\frac{2}{25}$

2. Write $\frac{7}{12}$ a decimal. $12\overline{)7.000}$ $.583$ $\underline{-60\downarrow}$ 100 $\underline{-96\downarrow}$

3. Which list is ordered from least to greatest?

   A 95.67, $95\frac{2}{3}$, $95\frac{7}{10}$

   B $95\frac{2}{3}$, $95\frac{7}{10}$, 95.67

   (C) $95\frac{2}{3}$, 95.67, $95\frac{7}{10}$

   D $95\frac{7}{10}$, $95\frac{2}{3}$, 95.67

4. Which number is greatest?

   F 142.04   H $142\frac{3}{4}$

   G 142.402   (J) $142\frac{4}{5}$

5. Which number represents being paid $364.50?

   A −36450   (C) +364.50

   B −364.50   D +36450

6. What is the opposite of −162.

   162

7. Which statement is *not* true?

   A 453 > 432   C −36 > −39

   (B −23 < −25)   D −196 < 196

8. Which set of integers is ordered from least to greatest?
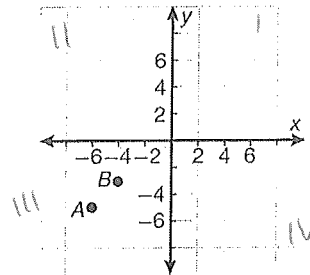
   F 42, −24, −36   H −36, 42, −24

   (G −36, −24, 42) J −24, −36, 42

Use the figure below for 9–12.

9. In which quadrant is point *A* located?

   A Quadrant I   (C Quadrant III)

   B Quadrant II   D Quadrant IV

10. What are the coordinates of point *B*?

    F (4, −3)   (H (−4, −3))

    G (−3, −4)   J (−3, 4)

11. Identify the coordinates of Point *B* after it is reflected across the *x*-axis.

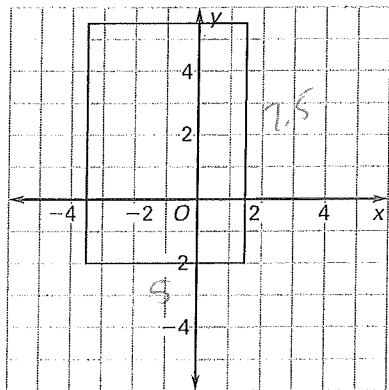   A (3, −4)   (C (−4, 3))

    B (−3, 4)   D (4, −3)

12. Identify the coordinates of Point *A* after it is reflected across the y-axis.

    $(6, -5)$

Rational Explorations: Numbers and their Opposites

13. Find the perimeter of the rectangle.

A $17\frac{1}{2}$ C 21

B 18   (D 25)

Free Response

14. Write 12.225 as a fraction or mixed number in simplest form.

$12\frac{225}{1000} = 12\frac{9}{40}$

15. Write $\frac{3}{8}$ as a decimal.

.375

16. Compare. Write <, >, or =.

$\frac{7}{16} < \frac{4}{9}$

17. Order the fractions from least to greatest:

$\frac{8}{9}, \frac{7}{12}, \frac{3}{4}$

.88 .58 .75

$\frac{7}{12}, \frac{3}{4}, \frac{8}{9}$

18. Haley's checking account is overdrawn by $52.
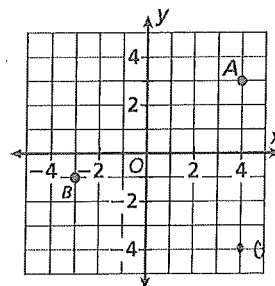
−52

19. What is the opposite of the integer −19?

19

20. Order −363; −365; −362; −370 from least to greatest.

−370, −365, −363, −362

21. Order from least to greatest.

$.46, \frac{4}{6}, .046, \frac{1}{10}, -4$

$-4, .046, \frac{1}{10}, .46, \frac{4}{6}$

Use the figure below for 22–23.

22. What is the distance between points A and C?

7

23. Find the coordinates of Point A after it is reflected across the x-axis.

(4, −3)

24. What is the perimeter of the rectangle (-3,12), (-3, -8), (5,12), (5, -8)?

−8→12   −3→5 so it's a
20   8   20×8
20+20+8+8= rectangle
(56 units)

25. What is the absolute value of 11?

11

26. What is the absolute value of -34?

34