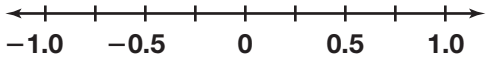
Name _____ Class _____ Date _____

Practice 4-6

Rational Numbers

Graph the rational numbers below on the same number line.

1. $\frac{3}{4}$ **2.** $-\frac{1}{4}$ **3.** -0.5 **4.** 0.3



Evaluate. Write in simplest form.

5. $\frac{x}{y}$, for $x = 12, y = 21$ _____

6. $\frac{n}{n + p}$, for $n = 9, p = 6$ _____

7. $\frac{k}{k^2 + 4}$, for $k = 6$ _____

8. $\frac{x - y}{-21}$, for $x = -2, y = 5$ _____

9. $\frac{m}{-n}$, for $m = 6, n = 7$ _____

10. $\frac{x(xy - 8)}{60}$, for $x = 3, y = 9$ _____

Write three fractions equivalent to each fraction.

11. $\frac{5}{7}$ _____

12. $\frac{22}{33}$ _____

13. $\frac{24}{30}$ _____

14. $\frac{6}{16}$ _____

15. Which of the following rational numbers are equal to $-\frac{17}{10}$?

$-17, -1.7, -\frac{34}{20}, 0.17$ _____

16. Which of the following rational numbers are equal to $\frac{3}{5}$?

$\frac{12}{20}, \frac{-3}{-5}, 0.3, \frac{6}{10}$ _____

17. Which of the following rational numbers are equal to $\frac{12}{15}$?

$\frac{4}{5}, \frac{40}{50}, -\frac{8}{10}, \frac{8}{10}$ _____

18. The weight w of an object in pounds is related to its distance d from the center of Earth by the equation $w = \frac{320}{d^2}$, where d is in thousands of miles. How much does the object weigh at sea level which is about 4,000 miles from the center of Earth?

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