Name: _____   Date: _____

Practice: Get Ready

Common Factors

1. List all the factors of each number.
  a) 55   **b)** 18   **c)** 36
  d) 24   **e)** 63   **f)** 12

2. Determine the greatest common factor for the numbers in each pair.
  a) 16, 32   **b)** 64, 24   **c)** 12, 54
  d) 27, 81   **e)** 60, 75   **f)** 48, 18

Operations With Fractions and Decimals

3. Express each fraction in lowest terms
  a) $\dfrac{36}{44}$ **b)** $\dfrac{50}{80}$ **c)** $\dfrac{45}{60}$

  d) $\dfrac{27}{81}$ **e)** $\dfrac{18}{63}$ **f)** $\dfrac{55}{99}$

4. Write each fraction as a decimal.
  a) $\dfrac{6}{8}$ **b)** $\dfrac{10}{80}$ **c)** $\dfrac{5}{25}$

  d) $\dfrac{7}{10}$ **e)** $\dfrac{12}{20}$ **f)** $\dfrac{15}{90}$

5. Write each decimal as a fraction in lowest terms.
  a) 0.35   **b)** 0.45   **c)** 0.4
  d) 0.25   **e)** 0.1   **f)** 0.75

Operations With Integers

6. Solve.
  a) $-4 + 7$ **b)** $3 - (-3)$
  c) $-8 - (-8)$ **d)** $18 + (-8) - 10$
  e) $-6 - (-7) + 1$ **f)** $25 + 5 - 4 - (-8)$

7. Evaluate.
  a) $\dfrac{10 - 6}{-8}$ **b)** $\dfrac{-5 - 5}{10}$ **c)** $\dfrac{1 - (-1)}{-4}$

  d) $\dfrac{-1 + 6}{17 - 12}$ **e)** $\dfrac{6 + (-5)}{-9 - 2}$ **f)** $\dfrac{-2 + (-5)}{-8 + (-6)}$

Graphing on a Coordinate Grid

8. Write the coordinates of each point.
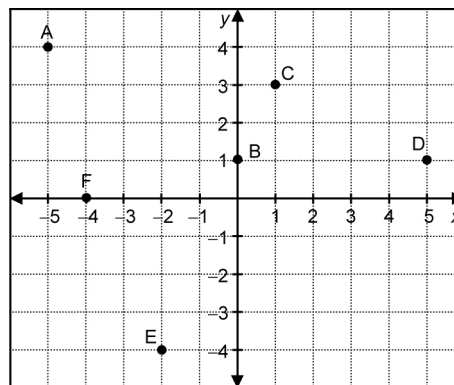
9. Plot the coordinates on the same set of axes.
  a) M(–2, 2)   **b)** N(–1, 0)   **c)** P(5, 5)
  d) Q(–3, –7)   **e)** R(0, 2)   **f)** S(8, 0)

Working With Variables

10. Solve for x.
  a) $-5x = 5$ **b)** $8x = 32$ **c)** $-3x = -12$
  d) $x + 10 = 0$ **e)** $-5x = 5$ **f)** $8x = 32$

11. Evaluate each expression by substituting the given value for the variable.
  a) $-x + 5$ $x = -5$
  b) $-2 + 3n$ $n = 3$
  c) $10 - 6m$ $m = 2$
  d) $-2r + 2$ $r = -2$
  e) $-0.9 + 3a$ $a = 0.3$
  f) $-3.5 - 7b$ $b = -0.5$