

Name: _____

Date: _____ Per: _____

Lesson 7.1.3 Homework

7-33. A homeowner must reduce the use of his home's electricity. The home currently consumes 25.7 kwh (kilowatt hours) of electricity per day, and the homeowner must reduce the use by 20%. Find the amount of electricity that will be used after the reduction in two different ways, using two different scale factors.

7-34. Simplify the following expressions by combining like terms, making zeros, and using the Distributive Property. Using algebra tiles may be helpful.

a. $(-1) + 4x + 2 + 2x + x$

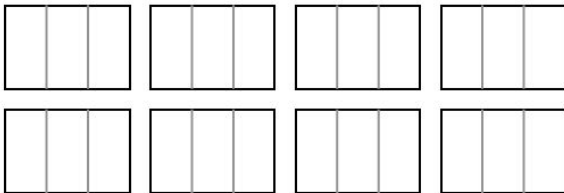
b. $-8x + 4 + (-3) + 10x$

c. $(-4) + 1x^2 + 3x + 4$

d. $2(3x - 2)$

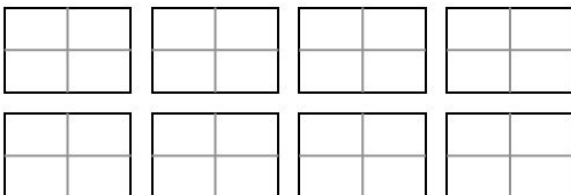
7-35. Study the following division problems and the diagrams that represent them. Answer the question below each diagram.

a. $8 \div \frac{1}{3}$



How many thirds?

b. $8 \div \frac{1}{4}$



How many fourths?

7-37. Simplify each expression.

a. $18 \div \frac{3}{4}$

b. $\frac{2}{3} (9 - 6) + 40$

c. $15 \div 5 + \frac{1}{2} \cdot (-\frac{4}{7})$

d. $-\frac{7}{10} + (-\frac{5}{12}) - (\frac{1}{4})$

e. $4.25 - 7.06$

f. $\frac{7}{8} - (-\frac{1}{10}) + (-\frac{3}{5})$