6th Grade Unit 4: Lesson 17-2

Check Your Understanding (p. 220):

1. Since $2 \times 10 = 20$, multiply 5×10 to find x: $x = 5 \times 10$, or 50.
2. Graph the ordered pairs, (x, y). If a line can be drawn connecting the points and the line goes through (0, 0), the values have a proportional relationship. If the x- and y-values in the table simplify to the same ratio, then the values are proportional.
   d. \$30
   e. Yes; (10, 50) is a point on the line, so 10:50 is equivalent to 4:20.
5. No, $3 \times 2 = 6$, but $2 \times 2 = 4$, not 5. Therefore $\frac{2}{3}$ and $\frac{5}{6}$ are not equivalent ratios.
6. Yes, $7 \times 3 = 21$, and $2 \times 3 = 6$. Therefore $\frac{2}{7}$ and $\frac{6}{21}$ are equivalent ratios.
7. Yes, $\frac{2}{4} = \frac{1}{2}$ and $\frac{3}{6} = \frac{1}{2}$, so they are equivalent ratios. Also, both ratios, when graphed, are on a line that goes through (0, 0).

Lesson 17-1 Practice (p. 220):

3. a.

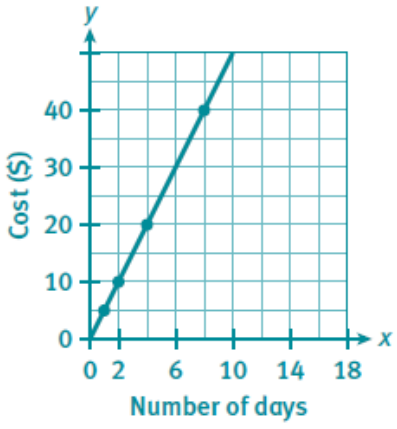
Number of Eggs	1	2	6	10	16
Cups of Flour	4	8	24	40	64

   b. 10 eggs
   c. 24 eggs
   d. $\frac{1}{4}, \frac{6}{24}, \frac{10}{40}, \frac{16}{64}$
   e. 1:4

4. a.

Number of Days, x	1	2	4	8
Total Cost (\$), y	5	10	20	40

   b.



   c. Yes; a line can be drawn connecting the points, and the line goes through (0, 0).