

Sixth Grade: Activity 17 Practice

(pg. 221-222)

Lesson 17-1

1. 15:12, 15 to 12, $\frac{15}{12}$
2. a. 310:5 (or $\frac{310}{5}$ or 310 to 5)
b. 68:8 (or $\frac{68}{8}$ or 68 to 8)
c. 40:5 (or $\frac{40}{5}$ or 40 to 5)
3. a. yellow and blue; 14:24, which simplifies to 7:12
b. about 65; $\frac{13}{100} = \frac{?}{500}$, $5 \times 13 = 65$
4. a. 3 gallons
b. 20 scoops
5. Yes. The ratio of red to all blocks is 3 to 5. $\frac{3}{5} = \frac{?}{60}$. $5 \times 12 = 60$, so $3 \times 12 = 36$. So there are more than enough red blocks.
6. D
7. B
8. Both ratios are 6:12, so they are equivalent ratios.
9. a. There is the same number of horses as there are cows because the ratios are equivalent.
b. 20, $10 + 10 = 20$
10. a. Sample answer: circles to all shapes; 3:4
b. Sample answer: circles to rectangles; 3:1
c. Sample answer: all shapes to rectangles; 4:1

Lesson 17-2

11.	45	3	90	36	63
	165	11	330	132	231

12. C
13. D
14. a. Yes. The graph is a line that passes through (0, 0), so the relationship is proportional.
b. 150 miles
c. $x = 5$
15. Check students' graphs. Not proportional; The graph is a line but it does not pass through (0, 0), so the relationship is not proportional.