Sixth Grade: Activity 18 Practice (pg. 231-232)

Lesson 18-1

 a. 10 seconds b. 300 photos c. 30,000 frames c. 70 seconds;
$\frac{1,750 \text{ frames}}{\text{film}} \times \frac{1 \text{ sec}}{25 \text{ frames}} = \frac{1,750 \text{ frames sec}}{25 \text{ film frames}} = \frac{70 \text{ sec}}{\text{film}}$
4. D
5. C
6. a. 1 year = 52 weeks
b. \$1,053.85
7. C
8. a. 5.5 feet
b. 1,584,000;
$photos = \frac{400 \text{ frames}}{\text{sec}} \times \frac{60 \text{ sec}}{1 \text{ jnf.}} \times \frac{66 \text{ jnf.}}{\text{film}}$
= 1, 584, 000 frames
9. a. 120; $\frac{1 \text{ student}}{1.5 \text{ min}} \times \frac{x \text{ students}}{180 \text{ min}}$,
1.5x = 180, x = 120
b. $166\frac{2}{3}$ hr; 400 students ×
10 booths \times 2.5 min = 10,000 min,
$\frac{10,000 \text{ min}}{1} \times \frac{1 \text{ hr}}{60 \text{ min}} = 166\frac{2}{3}$
10. D; Each frame = 1,920 × 1,080 = 2,073,600 pixels.
$\frac{25 \text{ frames}}{1 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 1,500 \text{ frames per min}$ $2,073,600 \text{ pixels} \times 1,500 \text{ min} =$ $3,110,400,000 \text{ pixels per min}$

Lesson 18-2

- **11.** B; Check students' number lines.
- **12.** \$156
- 13. C
- **14. a.** 34 in. by 44 in.

c. 16.1;
$$\frac{1,496}{93.5} = 16$$

15. No; 8:10 is not equal to 10:14.

16. D;
$$\frac{2 \times 1}{32 \text{ sq. in.}} = \frac{4 \times 4}{s \text{ sq. in.}}$$
;
 $s = 512 \text{ sq. in.}$

- 17. 241.3 mm by 185.67 mm
- **18.** about 269.1 cm²