

**Pg. 603 – 605 #17-27 odd, 33, 35**

- 17. 60 mi/h
- 19. \$2.40 per lb
- 21. 54 words per min
- 23. 4.5 servings per package
- 25. 4.8 MB per min
- 27. 280 square feet per hour
- 33. 2 cups of juice concentrate, 16 cups of water
- 35. a. rest: 72 beats per minute  
running: 150 beats per minute  
b. 234 beats

**Pg. 610- 611 #7-21 odd, 26, 29**

- 7. no
- 9. yes
- 11. no
- 13. no
- 15. yes
- 17. no
- 19. yes
- 21. yes; Both can do 45 sit-ups per minute.
- 26.
  - a. \$7 per hour
  - b. \$9 per hour
  - c. no; Your friend earns more money per hour.
- 29. See *Taking Math Deeper*.

## Pg. 618-619 #5-23 odd

5.  $\frac{x}{50} = \frac{78}{100}$

7.  $\frac{x}{150} = \frac{96}{100}$

9.  $\frac{n \text{ winners}}{85 \text{ entries}} = \frac{34 \text{ winners}}{170 \text{ entries}}$

11.  $\frac{100 \text{ meters}}{x \text{ seconds}} = \frac{200 \text{ meters}}{22.4 \text{ seconds}}$

13.  $\frac{\$24}{3 \text{ shirts}} = \frac{c}{7 \text{ shirts}}$

15.  $\frac{5 \text{ 7th grade swimmers}}{16 \text{ swimmers}} = \frac{s \text{ 7th grade swimmers}}{80 \text{ swimmers}}$

17.  $y = 16$

19.  $c = 24$

21.  $g = 14$

23.  $\frac{1}{200} = \frac{19.5}{x}$ ; Dimensions for the model are in the numerators and the corresponding dimensions for the actual space shuttle are in the denominators.

**Pg. 626-627 #5-27 odd, 32, 36**

5.  $h = 80$

7.  $n = 15$

9.  $y = 7\frac{1}{3}$

11.  $k = 5.6$

13.  $n = 10$

15.  $d = 5.76$

17.  $m = 20$

19.  $d = 15$

21.  $k = 5.4$

23. 108 pens

25.  $x = 1.5$

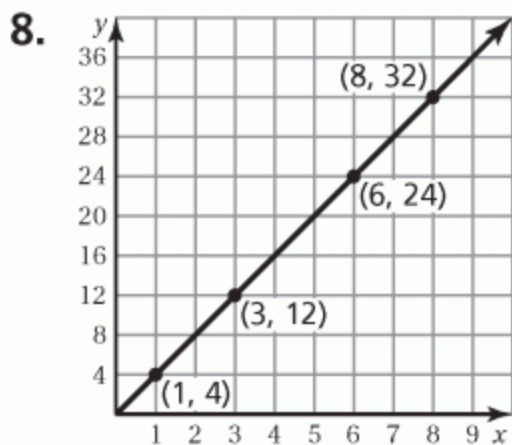
27.  $k = 4$

32. \$769.50

36. See *Taking Math Deeper*.

## Pg. 641-642 #1-14

1. 28.9 miles per gallon
2. 2.4 revolutions per second
3. 120 calories per serving
4. no
5. yes
6. no
7. yes



$x$  and  $y$  are in a proportional relationship.

9. *Sample answer:*

$$\frac{8 \text{ penalties}}{6 \text{ penalties}} = \frac{m \text{ minutes}}{16 \text{ minutes}}$$

10. *Sample answer:*

$$\frac{15 \text{ songs}}{2.5 \text{ hours}} = \frac{18 \text{ songs}}{h \text{ hours}}$$

11.  $x = 1.6$
12.  $y = 6.25$
13.  $w = 15$
14.  $s = 1$

