

Chapter Eight Review**Section 8.1 Ratio**

1. $\frac{4 \cancel{\text{ inches}}}{12 \cancel{\text{ inches}}} = \frac{1 \bullet \cancel{4}}{3 \bullet \cancel{4}} = \frac{1}{3}$

2. $\frac{8 \cancel{\text{ ounces}}}{2 \text{ lb}} = \frac{8 \cancel{\text{ ounces}}}{32 \cancel{\text{ ounces}}} = \frac{1 \bullet \cancel{8}}{4 \bullet \cancel{8}} = \frac{1}{4}$

3. 21:14 is $\frac{21}{14} = \frac{3 \bullet \cancel{7}}{2 \bullet \cancel{7}} = \frac{3}{2}$

4. 24 to 36 is $\frac{24}{36} = \frac{2 \bullet \cancel{12}}{3 \bullet \cancel{12}} = \frac{2}{3}$

5. AIRCRAFT

$$\frac{185}{160} = \frac{37 \bullet \cancel{5}}{32 \bullet \cancel{5}} = \frac{37}{32}$$

6. PAY SCALE

$$\frac{\$333.25}{43 \text{ hr}} = \$7.75 \text{ per hour}$$

7. COMPARISON SHOPPING

$$\frac{\$4.95}{12 \text{ oz}} = \$0.4125 \text{ per ounce}$$

$$\frac{\$3.25}{8 \text{ oz}} = \$0.40625 \text{ per ounce}$$

The 8oz can is the better buy.

Section 8.2 Proportions

8. 75

9. 15

10. $15 \bullet 204 = 3,060$; $29 \bullet 105 = 3,045$

no

11. $17 \bullet 84 = 1,428$; $7 \bullet 204 = 1,428$

yes

12. $\frac{5}{9} = \frac{20}{36}$?

$$5 \bullet 36 = 180; 9 \bullet 20 = 180$$

yes

13. $\frac{7}{13} = \frac{29}{54}$?

$$7 \bullet 54 = 378; 13 \bullet 29 = 377$$

no

