

- 1) ratios
- 4) yes
- 6) no, 7 to 8
- 8) 64
- 10) 6
- 12) 5
- 14) 4
- 16) 48
- 18) 56
- 19) C
- 20) B
- 21) Multiply both sides by 6
- 22) Multiply both sides by 10
- 23) 12
- 25) 2
- 27) 35
- 29) 18
- 31) 1.8
- 33) 2.4
- 35) 4
- 37) 4
- 39) 2
- 41) 3.5
- 46) 7/8
- 47) 2/5
- 48) 3/5
- 49) 1/2
- 50) 21 pages
- 51) 45 goals

Algebra I  
pg. 165

52) a: 70.3 ft.

b:

Width (ft)	Length (ft)
20	37
25	46.25
30	55.5
35	64.75
40	74

53) a: 10/23  
b: 110 lift tickets  
c: 40 snowboarders

$$10) \frac{36}{12} = \frac{x}{2}$$

$$2(3) = \left(\frac{x}{2}\right)2$$

$$6 = x$$

$$\{6\}$$

$$18) \frac{49}{98} = \frac{5}{112}$$

$$\left(\frac{1}{2} = \frac{5}{112}\right) 112$$

$$56 = 5$$

$$\{56\}$$

$$31) \left(\frac{v}{.5} = \frac{2.9}{.5}\right) \cdot .5$$

$$v = \frac{2.9}{.5}$$

$$v = 1.8$$

$$\{1.8\}$$

$$33) \frac{2.1}{7.7} = \frac{v}{8.8}$$

$$8.8 \left(\frac{0.3}{7.7}\right) = \left(\frac{v}{8.8}\right) 8.8$$

$$2.4 = v$$

$$\{2.4\}$$

46) 16 boys  
30 in all  
14 girls

$$\frac{14}{16} = \frac{7}{8}$$

$$50) \left(\frac{7}{10} = \frac{x}{30}\right) 30$$

$$21 = x$$

21 pages

or

$$30 \text{ min} \times \frac{7 \text{ pg}}{10 \text{ min}}$$

$$21 \text{ pg}$$

$$52) 1.85:1$$

$$\left(\frac{1.85}{1} = \frac{x}{38}\right) 38$$

$$70.3 \text{ ft} = x$$

Science - Conversion Method

$$38 \text{ width} \times \frac{1.85 \text{ len}}{1 \text{ width}} = 70.3 \text{ ft}$$

$$53) \frac{13}{10} \text{ ski board total: } 23$$

$$a) \frac{10}{10+13} = \frac{10}{23}$$

$$b) \left(\frac{10}{2} = \frac{x}{253}\right) 253 = 110$$

Science - Conversion Method

$$253 \text{ total} \times \frac{10 \text{ boarder}}{23 \text{ total}} = 110$$

$$c) \frac{4}{7} \text{ rent own} ; \left(\frac{4}{11} = \frac{x}{110}\right) 110$$

$$40 = x$$