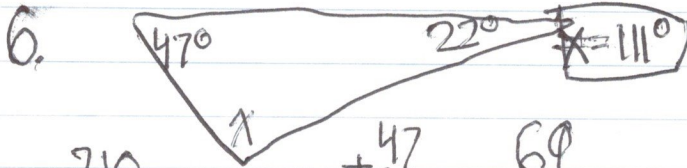


# 1.1 Solving Simple Equations

pg. 78 #6-10, 13-16, 18-20, 25, 28

7.  $x+12=7$   $= -x+12=7$   $= -5+12=7$   
~~7-12=-5~~  $7-12=-5$   $-12$   
 $x=5$   $12-7=5$   $-5$   
 $7$

8.  $9+16$



7.  $x+12=7$   $= -5+12=7$

~~180~~  
 $180$   
 $-69$   
 $111$

$47$   
 $+22$   
 $69$

~~69~~  
 $69$   
 $-47$   
 $22$

8.  $9-16=8$   $+16$   $14$   
 $24-16=8$   $8$   $24$   $8$   
 $8$   $16$

9.  $-9+p=12$   $+12$   $-2x$   
 $-9+21=12$   $21$   $9$   
 $12$

10.  $0.7+y=-1.34$

$1.34$   
 $+0.70$   
 $2.04$

~~1.34~~  
~~0.70~~  
~~2.04~~

13.  $\frac{5}{6} = \frac{1}{3} + d$   $\frac{5}{6} = \frac{1}{3} + \frac{1}{2}$

$\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$   
 $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

~~Handwritten scribbles~~

14.  $\frac{3}{8} = r + \frac{1}{3} = \frac{3}{8} - \frac{1}{3}$   
 $0.7 + -2.04 = 1.34$

~~$\frac{3}{8} \times \frac{16}{16} = \frac{9}{24}$~~   
 ~~$\frac{1}{3} \times \frac{8}{8} = \frac{8}{24}$~~   
 ~~$\frac{9}{24} - \frac{8}{24} = \frac{1}{24}$~~   
 ~~$\frac{16}{24} - \frac{8}{12} = \frac{4}{6} = \frac{2}{3}$~~

# 1. Solving Simple Equations

$$14. \frac{3}{8} = r + \frac{2}{3} \quad \boxed{\frac{3}{8} = -\frac{7}{24} + \frac{2}{3}}$$

$$\frac{3}{8} \times \frac{3}{3} = \frac{9}{24} \quad \frac{2}{3} \times \frac{8}{8} = \frac{16}{24}$$

~~15.~~

$$\cancel{r=9} \quad r = \frac{9}{24} - \frac{16}{24}$$

$$r = -\frac{7}{24}$$

$$15. n - 1.4 = 6.3 \Rightarrow -4.9 - 1.4 = -6.3$$

$$\begin{array}{r} 5 \quad 13 \\ \cancel{6.3} \\ - 1.4 \\ \hline 4.9 \end{array} \quad \begin{array}{r} 1 \\ 4.9 \\ + 1.4 \\ \hline 6.3 \end{array}$$

$$n = 4.9$$

$$16. p - 14.50 = 53$$

$$\cancel{p} = 14.50 + 53$$

$$p = 67.50$$

\$67.50 is the original price

$$\begin{array}{r} \cancel{412.00} \\ \cancel{58.00} \\ - 14.50 \\ \hline 38.50 \end{array}$$

$$\begin{array}{r} + 53.00 \\ + 14.50 \\ \hline 67.50 \end{array}$$

18-20, 25, 28

18.  $7x = 35$

$$\boxed{x = 5}$$

19.  $4 = -0.8n$   
 $n = -4 \div 0.8$

$$n = -\frac{4}{0.8}$$

$$n = -\frac{40}{8}$$

$$\boxed{n = 5}$$

20.  ~~$6 = w$~~   
 $6 = -\frac{w}{8}$

~~$w = -6$~~   
 $w = -6 \times 8$

$$\boxed{w = -48}$$

28.  $3x = 42$

25.  $-2 = \frac{6}{7}p$

$$p = -\frac{2}{1} \times \frac{7}{6}$$

~~$p = -\frac{7}{3}$~~   
 $p = -\frac{7}{3}$