

## 2.2 Expressions and Formulas

- 1) a)  $P = 2T + 1$
- 5) a)  $\frac{7}{3} = 2\frac{1}{3}$  cups of flour.  
b)  $\frac{s}{3} = \frac{1}{3} S = \frac{1}{3}S$  cups of flour.  
c)  $F = \frac{1}{3} S$  or  $F = \frac{s}{3}$
- 9) M = number of miles driven  
C = cost of operating car  
a)  $C = \$0.06 M + \$0.25 M$   
b)  $C = \$0.31 M$   
c) 31 cents.  
d) \$3.10.
- 11) a)  $AREA = \frac{1}{16} BASE^2$   
b)  $400 \text{ cm}^2$ .
- 13) 30 ft
- 15) a) 125 mi  
b) We arrive at Finishville much sooner if we take the highway.
- 17) a)  $^{-}6a + ^{-}2b$   
b)  $^{-}2(3a + b)$   
c) Expanding and factoring are opposite processes.
- 19) a) Answers vary