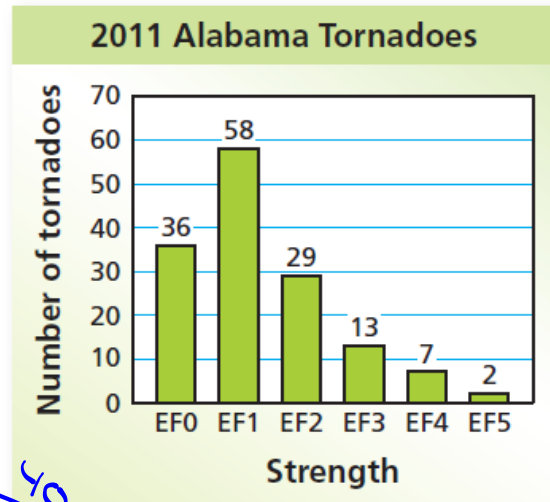


6.3b Percent Proportion Word Problems

- Ex. 1 The bar graph shows the strengths of tornadoes that occurred in Alabama in 2011. What percent of the tornadoes were EF1s?



$$\frac{58}{145} = \frac{p}{100}$$

$$145 \cdot p = 58 \cdot 100$$

$$\frac{145 \cancel{p}}{\cancel{145}} = \frac{5800}{\cancel{145}}$$

$$\begin{array}{r} 145 \overline{) 5800} \\ \underline{-5800} \\ 0 \end{array}$$

$$p = 40 \text{ or } 40\%$$

40% of the tornadoes were EF1s.

- Ex. 2 You put 60% of your paycheck into your savings account. Your paycheck is \$235. How much money do you put in your savings account?

$$\frac{a}{235} = \frac{60}{100}$$

$$100a = 60 \cdot 235$$

$$\frac{100 \cancel{a}}{\cancel{100}} = \frac{14100}{\cancel{100}}$$

$$a = 141$$

$$\begin{array}{r} 235 \\ \times 60 \\ \hline 14100 \\ \hline 14100 \end{array}$$

You put \$141 into your savings acct.

HW: p. 230 #12-18 even, 19, 20, 26-29