

## 5-5 Percent and Estimation

## Compatible Numbers

two numbers that are easy to divide mentally

19% of 30  
of x

$$20\% (30) = 6$$

$$10\% = 0.1$$

$$10\% \text{ of } 30 = 3$$

$$20\% = 2 \times 3 = 6$$

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25% of 40

$$\frac{1}{4} \times \frac{40}{1} = \frac{40}{4} = 10$$

65% of 75

$$66\% = \frac{2}{3} \times 75 = 50$$

8 out of 25

$$\frac{8}{25} \approx \frac{8}{24} = \left(\frac{1}{3}\right) = \left(33\frac{1}{3} \%\right)$$

14 out of 25

$$\frac{15}{25} = \frac{3}{5} = (60\%)$$

89 out of 121

$$\frac{\cancel{90}}{\cancel{120}} = \frac{9}{12} \frac{3}{4} = (75\%)$$

## Graded Practice

a.) 7 out of 57

$$\frac{7}{56} = \frac{1}{8} = 12\frac{1}{2}\%$$

b.) 9 out of 25

$$\frac{10}{25} = \frac{2}{5} = 40\%$$

c.) 7 out of 79

$$\frac{8}{80} = \frac{1}{10} = 10\%$$