

WarmUp: 3-5

1/12/09

1. Find 1% of 79

2. Find 10% of 13.4

3. Find 60% of 140

4. Which is greater, 9 or 30% of 24?

5. Name the fraction you would use to find 37.5% of 84

Notes: Percent and Estimation (3-6) 1/12

ex: Estimate 19% of 60

$$\rightarrow 19\% \approx 20\%$$

↑

is about
almost

$$\rightarrow 20\% = \frac{1}{5}$$

Know:

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

$$20\% = \frac{1}{5}$$

$$25\% = \frac{1}{4}$$

$$33\% = \frac{1}{3}$$

$$50\% = \frac{1}{2}$$

$$20\% = \frac{2}{10} \quad 30\% = \frac{3}{10} \dots$$

$$40\% = \frac{2}{5} \quad 60\% = \frac{3}{5} \quad 80\% = \frac{4}{5}$$

$$75\% = \frac{3}{4}$$

$$66\frac{2}{3}\% \text{ or } 66.\bar{6}\% = \frac{2}{3}$$

$\frac{1}{5}$ of 60

$$\begin{array}{r} 10 \quad 10 \quad 10 \quad 10 \quad 10 \\ + 2 \quad + 2 \quad + 2 \quad + 2 \quad + 2 \\ \hline (12) \quad 12 \quad 12 \quad 12 \quad 12 \end{array}$$

★ 5 and 60
are compatible
because
60 is divisible
by 5.

(12)

ex: Estimate 25% of 78

fraction = ↓

$$\frac{1}{4}$$

multiply ↓ round ↓

80

$$\begin{array}{r} 20 \quad 20 \quad 20 \quad 20 \\ \hline 80 \end{array}$$

★ 4 and 80
are compatible
because
80 is divisible
by 4

(20)

Notes: 3-6 cont.

1/12

Ex: Estimate 65% of 34

$$\begin{array}{ccc} \text{round} \downarrow & \text{multiply} & \downarrow \text{round} \\ 66\frac{2}{3}\% & \cdot & 33 \\ \downarrow & & \downarrow \\ \frac{2}{3} & \cdot & 33 \\ & & \begin{array}{ccc} \swarrow & \downarrow & \searrow \\ \textcircled{11} & \textcircled{11} & 11 \end{array} \end{array}$$

22

Try This: Estimate

1) 29% of 50

2) 88% of 64

3) 7 out of 16

Ex: Find %

① 8 out of 13

↓
12

$$\frac{8}{12} = \frac{2}{3} = \textcircled{66.\bar{6}\%}$$

② 4 out of 25

↓

5 out of 25

$$\frac{5}{25} = \frac{1}{5} = \textcircled{20\%}$$

HW p 129 # 23-28