

7th Grade  
Jan 8, 2021

Today we will:

- turn in THQ
- complete yesterday's in-class WS (7L)
- work in ALEKS

HOMEWORK:

ALEKS assignment due no later than Monday 8am. You have 3 attempts for each question and 2 attempts for the entire assignment. The grade will go in as homework. Late assignments will be taken until Friday, Jan 15 and will be -10%. This will count in your ALEKS time but not for your topics.

ALEKS assignment:  
60 min and 5 topics  
due Jan 12



**Lesson 2 Extra Practice**

**Find Percent of a Number Mentally**

Find the percent of each number mentally.

1. 40% of 60

$$\begin{array}{r} 60 \\ \times 4 \\ \hline 240 \end{array}$$

(24)

$$2 \sqrt{7.2}$$

2. 25% of 72

$$\begin{array}{r} 72 \\ \times 3 \\ \hline 216 \end{array}$$

14.4 (18)

3. 50% of 96

$$\frac{1}{2} \times 96 = 48$$

$$2 \sqrt{96}$$

$$\frac{8}{16}$$

4.  $33\frac{1}{3}\%$  of 24

$$\frac{1}{3} \times 24 = 8$$

$33\frac{1}{3}\%$  is  $\frac{1}{3}$  of 100%

5.  $37\frac{1}{2}\%$  of 80

$$\frac{3}{8} \times 80 = 30$$

6. 150% of 42

$$100\% + 50\% = 42 + 21 = 63$$

7. 200% of 125

$$2 \times 125 = 250$$

8.  $66\frac{2}{3}\%$  of 45

$$\frac{2}{3} \times 45 = 30$$

**Estimate.**

9. 60% of 49

50%

$$10\% = 5$$

$$60\% = 6 \times 5 = 30$$

10. 19% of 41

20% 40%

$$10\% = 4$$

$$20\% = 2 \times 4 = 8$$

11. 82% of 60

80% 60%

$$10\% = 6$$

$$80\% = 8 \times 6 = 48$$

12. 125% of 80

100% = 80

$$\frac{1}{4} \times 80 = 20$$

$$20 + 20 = 40$$

$$40 + 20 = 60$$

100

13.  $\frac{1}{2}\%$  of 520

$$5.20 \div 2 = 2.6$$

14. 31% of 19

20%

$$30 \times 20$$

$$10\% = 2$$

$$30\% = 3 \times 2 = 6$$

Finding 10% Mentally

Write down the three examples (NOT EVERYTHING!) from the video here:

Example 1:

$$10\% \text{ of } 50 \text{ is } \underline{5}.$$

Example 2:

$$10\% \text{ of } 80 = 8$$

Example 3:

$$10\% \text{ of } 96 = 9.6$$

Use the 10% rule from the video:

$$\text{Find } 10\% \text{ of } 60. \underline{6}$$

$$\text{Find } 10\% \text{ of } 80. \underline{8}$$

$$\text{Find } 10\% \text{ of } 35. \underline{3.5}$$

$$\text{Find } 10\% \text{ of } 107. \underline{10.7}$$

$$\text{Find } 10\% \text{ of } 548. \underline{54.8}$$

Now use multiples to try these:

$$\text{Find } 20\% \text{ of } 60. \underline{12}$$

(\*Hint: 20% is twice as much as 10%)

$$\text{Find } 30\% \text{ of } 80. \underline{24}$$

(\*Hint: 30% is three times as much as 10%)

$$\text{Find } 20\% \text{ of } 35. \underline{7}$$

$$\text{Find } 40\% \text{ of } 107. \underline{42.8}$$

$$\text{Find } 20\% \text{ of } 548. \underline{109.6}$$



Review of percents concepts from 6th grade:

$$0.26 = 26\%$$

$$\frac{2}{5} \times \frac{20}{20} = \frac{40}{100} = 40\%$$

$$\frac{3}{8} \quad 8 \overline{) 3.000} \quad 37.5\%$$

