

7th Grade  
March 17, 2021

Today we will:

- Review HW
- Work on quiz/task cards with a partner or alone
- Work on THQ if done early



HOMEWORK:

THQ due FRIDAY

ALEKS assignment:  
60 min and 5 topics  
due Monday by 11:59pm



Translate each sentence into an equation. (Example 1)

7 Eighteen more than half a number is 8.  $\frac{1}{2}x + 18 = 8$

8. The product of a number and 9, less 20, is 7.  $9n - 20 = 7$

9. There are 48 soccer teams in the Springtown Association. This is three less than three times the number of teams in the Lyon Association.  $3x - 3 = 48$

10. Eileen drove for 85 minutes. This is 21 more minutes than one-third the number of minutes Ethan drove.  $\frac{1}{3}n + 21 = 85$

Solve each problem by writing and solving an equation. (Examples 2 and 3)

11. In 2007, Candace Parker, from the University of Tennessee, made 37 more field goals than she did in 2006. She had a total of 497 field goals for those years. How many field goals did she make in 2006?  $2g + 37 = 497$ ; 230 field goals

Handwritten solution for problem 11:  
 $g \rightarrow 2006$   
 $h \rightarrow 2007$   
 $h = g + 37$   
 $g + h = 497$   
 $g + (g + 37) = 497$   
 $2g + 37 = 497$   
 $2g = 497 - 37$   
 $2g = 460$   
 $g = 230$

Solve each equation. Check your solution. 8.EE.7

29.  $x + 12 = -10$  -22

30.  $-\frac{y}{6} = -2$  12  $-\frac{y}{6} \cdot 6 = -2 \cdot 6$

31.  $2p + 13 = -7$  -10

32.  $7y + 3 = -11$  -2

33.  $-8t - 9 = -41$  4

34.  $8z = 14$   $1\frac{3}{4}$

35.  $\frac{1}{5}g - 5 = -3$  10

36.  $7 = \frac{1}{3}m + 20$  -39

37.  $18.3 = 2.5c - 1.3$  7.84

38.  $2.9y + 6 = -2.7$  -3

39.  $\frac{1}{8}t + 3 = 0$  -24

40.  $\frac{2}{5} + \frac{1}{2}d = \frac{3}{5}$   $\frac{2}{5}$

41. A concert ticket costs  $t$  dollars, a hamburger costs  $h$  dollars, and soda costs  $d$  dollars. Write an expression that represents the total cost of a ticket, hamburger, and soda for  $n$  people. 6.EE.2a  $n(t + h + s)$

Handwritten:  $nt + nh + ns$

Handwritten solution for 40:  
 $\frac{1}{8}t + 3 = 0$   
 $\frac{1}{8}t = -3$   
 $1t = -3 \cdot 8$   
 $t = -24$

Handwritten solution for 41:  
 $\frac{1}{8}t + 3 = 0$   
 $\frac{1}{8}t = -3$   
 $8 \cdot \frac{1}{8}t = -3 \cdot 8$   
 $t = -24$

Handwritten solution for 30:  
 $\frac{7}{8} \cdot \frac{8}{7}x = \frac{4}{1} \cdot \frac{7}{5}$

Handwritten solution for 30:  
 $\frac{3x}{3} = \frac{24}{3}$   
 $x = 8$



Note:

For this chapter, you **MUST** solve **ALL EQUATIONS** by balancing! If you do not show balancing, you will get **HALF CREDIT**, even if you have the correct solution!



**Chapter 8 Lesson 3 Writing Equations Quiz Cards**

<p>1. Translate into an equation. <i>Eleven less than 5 times a number is 24.</i></p>	<p>Answer:</p>
<p>2. Translate into an equation. <i>The quotient of a number and <math>-9</math> increased by <math>10.3</math> is <math>11.3</math>.</i></p>	<p>Answer:</p>
<p>3. Translate into an equation. <i>Five less than the product of <math>-3</math> and a number is <math>-2</math>.</i></p>	<p>Answer:</p>
<p>4. Translate into an equation. <i>Fifteen more than twice a number is <math>-23</math>.</i></p>	<p>Answer:</p>
<p>5. Translate into an equation. <i>The difference between one fifth of a number and <math>4</math> is <math>16</math>.</i></p>	<p>Answer:</p>

<p>6. Translate into an equation. <i>Nine more than <math>-8</math> times a number is <math>-7</math>.</i></p>	<p>Answer:</p>
<p>7. Translate into an equation. <i>The difference between <math>12</math> and one tenth of a number is <math>-28</math>.</i></p>	<p>Answer:</p>
<p>8. Translate into an equation. <i>Seven and six tenths more than three times a number is <math>52.6</math>.</i></p>	<p>Answer:</p>
<p>9. Translate into an equation. <i>Eleven less than five times a number is <math>19</math>.</i></p>	<p>Answer:</p>
<p>10. Translate into an equation. <i>Thirteen more than four times a number is <math>-93</math>.</i></p>	<p>Answer:</p>

<p><b>11. Translate into an equation.</b></p> <p><i>Seven less than twice a number is 43.</i></p>	<p><b>Answer:</b></p>
<p><b>12. Solve.</b></p> <p><i>The total cost of a suit and 4 ties is \$292. The suit costs \$200. Each tie cost the same amount. Find the cost of one tie.</i></p>	<p><b>Answer:</b></p>
<p><b>13. Solve.</b></p> <p><i>A gym charges a \$49.95 activation fee and \$17.50 per month for a membership. If you spend \$364.95, for how many months do you have a gym membership?</i></p>	<p><b>Answer:</b></p>
<p><b>14. Solve.</b></p> <p><i>Morgan has 98 baseball cards in his collection, which is twelve less than the product of <math>\frac{2}{3}</math> and the number of cards Tyler has. How many does Tyler have?</i></p>	<p><b>Answer</b></p>



$$\textcircled{1} 5n - 11 = 24$$

$$\textcircled{2} \frac{n}{-9} + 10.3 = 11.3$$

$$\textcircled{3} -3n - 5 = -2$$

$$\textcircled{4} 15 + 2n = 23$$

$$\textcircled{5} \frac{1}{5}n - 4 = 16$$

$$\textcircled{6} 9 + (-8n) = -7$$

$$\textcircled{7} 12 - \frac{1}{10}n = -28$$

$$\textcircled{8} 7.6 + 3n = 52.6$$

$$\textcircled{9} 5n - 11 = 19$$

$$\textcircled{10} 13 + 4n = -93$$

$$\textcircled{11} 2n - 7 = 43$$

$$\textcircled{12} \$23 \text{ (on WS)}$$

$$\textcircled{13} \begin{array}{r} 49.95 + 17.50m = 364.95 \\ -49.95 \qquad \qquad \qquad -49.95 \\ \hline \end{array}$$

$$\begin{array}{r} 17.50m = 315 \\ \hline 17.50 \quad 17.50 \end{array}$$

$$\textcircled{14} \frac{2}{3}t - 12 = 98$$

$m = 18$   
 $t = 165$

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