7th Grade
March 29, 2021

Today we will:

-Begin Skills WS together as notes

-Complete WS on own

HOMEWORK:

Complete Skills WS

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

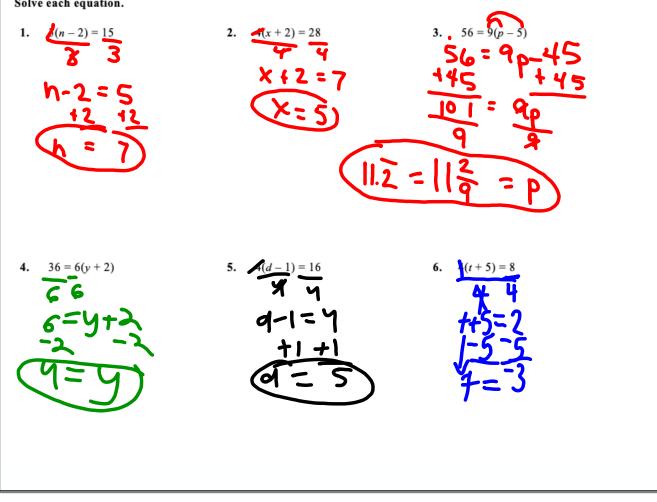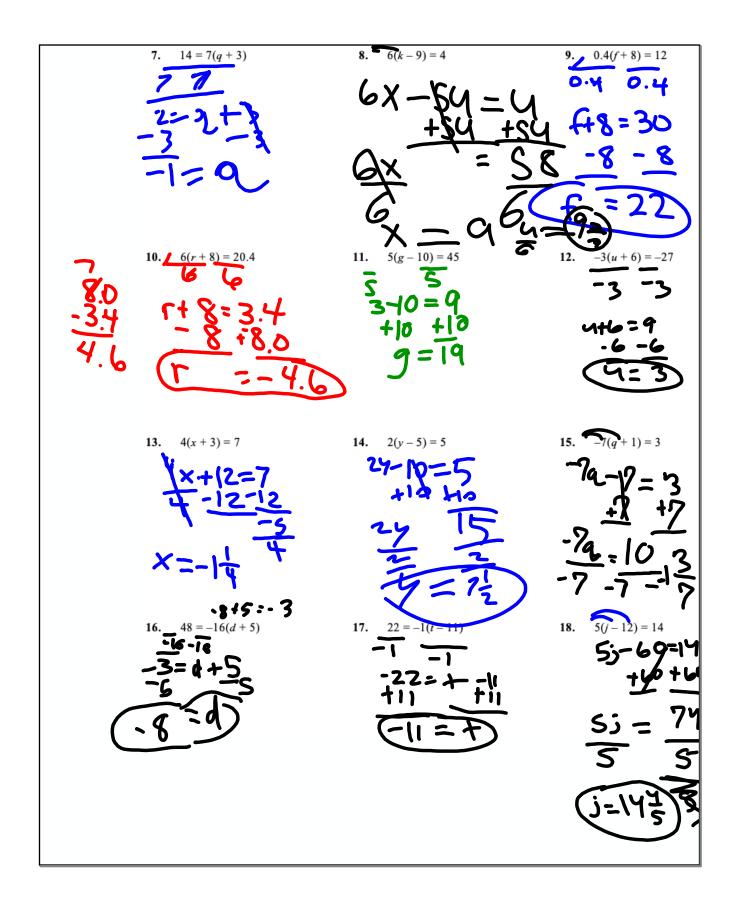## Lesson 4 Skills Practice
More Two-Step Equations

HOW TO SOLVE:
1. Look to see if the number __Outside__ the parentheses goes into the number on the other side of the __equal__ sign. If it does, divide it out and then solve the one-step equation.
2. If the number outside the parentheses does NOT go in evenly, use the __distributive__ property to get rid of the __parentheses__.
3. Combine __like__ __terms__
4. __Balance__ the equation to __isolate__ the variable.

Solve each equation.

1. $2(n-2) = 15$

$$\frac{2(n-2)}{8} = \frac{15}{3}$$

$n - 2 = 5$
$\quad +2 \quad +2$
$n = 7$

2. $4(x+2) = 28$

$$\frac{4(x+2)}{4} = \frac{28}{4}$$

$x + 2 = 7$
$x = 5$

3. $56 = 9(p-5)$

$56 = 9p - 45$
$+45 \qquad +45$
$$\frac{101}{9} = \frac{9p}{9}$$

$11.\overline{2} = 11\frac{2}{9} = p$

4. $36 = 6(y+2)$

$$\frac{36}{6} = \frac{6}{6}$$

$6 = y + 2$
$-2 \qquad -2$
$4 = y$

5. $4(d-1) = 16$

$$\frac{4(d-1)}{4} = \frac{16}{4}$$

$d - 1 = 4$
$+1 \quad +1$
$d = 5$

6. $4(t+5) = 8$

$$\frac{4(t+5)}{4} = \frac{8}{4}$$

$t + 5 = 2$
$-5 \quad -5$
$t = -3$

7. $14 = 7(q + 3)$

$$\frac{7 \quad 7}{}$$

$2 = q + 3$

$-3 \qquad -3$

$-1 = q$

8. $6(k - 9) = 4$

$6x - 54 = 4$

$\qquad +54 \quad +54$

$6x \qquad = 58$

$\frac{6x}{6} = 9 \frac{6u}{6} = \frac{9}{-1}$

$x = 9$

9. $0.4(f + 8) = 12$

$$\frac{}{0.4 \quad 0.4}$$

$f + 8 = 30$

$-8 \quad -8$

$\boxed{f = 22}$

10. $6(r + 8) = 20.4$

$$\frac{}{6 \quad 6}$$

$r + 8 = 3.4$

$\quad -8 \quad +8.0$

$\boxed{r = -4.6}$

-8.0
-3.4
$\overline{4.6}$

11. $5(g - 10) = 45$

$$\frac{}{5 \quad 5}$$

$g - 10 = 9$

$+10 \quad +10$

$g = 19$

12. $-3(u + 6) = -27$

$$\frac{}{-3 \quad -3}$$

$u + 6 = 9$

$-6 \quad -6$

$\boxed{u = 3}$

13. $4(x + 3) = 7$

$$\frac{x + 12 = 7}{4 \quad -12 \quad -12}$$

$$\frac{-5}{4}$$

$x = -1\frac{1}{4}$

14. $2(y - 5) = 5$

$2y - 10 = 5$

$\quad +10 \quad +10$

$$\frac{2y}{2} = \frac{15}{2}$$

$\boxed{y = 7\frac{1}{2}}$

15. $-7(q + 1) = 3$

$-7q - 7 = 3$

$\quad +7 \quad +7$

$$\frac{-7q}{-7} = \frac{10}{-7} = -1\frac{3}{7}$$

16. $48 = -16(d + 5)$

$$\frac{}{-16 \quad -16}$$

$-3 = d + 5$

$-5 \qquad -5$

$\boxed{-8 = d}$

$\cdot 8 + 5 = -3$

17. $22 = -1(t - 11)$

$$\frac{}{-1 \quad -1}$$

$-22 = t - 11$

$+11 \qquad +11$

$\boxed{-11 = t}$

18. $5(j - 12) = 14$

$5j - 60 = 14$

$\quad +60 \quad +60$

$$\frac{5j}{5} = \frac{74}{5}$$

$\boxed{j = 14\frac{4}{5}}$

Math Chapter 8

TITLE: Equations

Date	Lesson	Topic/Assignment
March 9	1	One-Step Equations Video Notes
March 10	1	HOMEWORK: Kuta Practice WS
March 10	1	CLASSWORK: Homework Practice WS
March 11	2	Two-Step Equations Video Notes
March 11	2	CLASSWORK: Bug Maze
March 15	2	CLASSWORK: Skills Practice WS
March 16	3	Writing Equations Video Notes
March 17	3	HOMEWORK: Pg341 WS
March 17	3	CLASSWORK: Quiz Cards
March 18	1-3	CLASSWORK: Review Packet
March 23	7	Solving Inequalities Video Notes
March 24	7	CLASSWORK: Skills WS
March 25	ALL	HOMEWORK: Study Guide

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!

Welcome to our class

IN THIS CLASSROOM
WE DON'T
give up,
BUT WE DO
give our
best effort

HARD
WORK
PAYS
OFF

WELCOME

7th Grade
Homework

Complete Skills WS if not done

Regular ALEKS time and topics due TONIGHT