## **ALEKS**<sup>®</sup>

Class	Name	÷	8A - A	
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Student Name : \_\_\_\_\_

Instructor Name : Ms. Ryan Instructor Note :

1. Translate the sentence into an equation.

Seven more than the product of a number and 3 is 9.

Use the variable x for the unknown number.

2. Translate this sentence into an equation.

The product of 4 and Matt's height is 52.

Use the variable m to represent Matt's height.

**3.** Solve for w.

-6 + w = 8

**4.** Solve for *v*.

$$\frac{v}{4} = 76$$

Simplify your answer as much as possible.

**5.** Solve for *y*.

$$-20 = -5y$$

Simplify your answer as much as possible.

**6.** Solve for *u*.

-6+4u = -22

Simplify your answer as much as possible.

**7.** Solve for u.

$$14 + 12 u = -16 + 9 u$$

Simplify your answer as much as possible.

8. Solve for *u*.

$$7u + 4(u - 7) = 27$$

Simplify your answer as much as possible.

9. Evaluate the following.

$$\begin{vmatrix} -4+9 \end{vmatrix} = \\ \begin{vmatrix} -4 \end{vmatrix} + 9 = \end{vmatrix}$$

**10.** Evaluate the following.

$$\begin{vmatrix} -4 + 7 \end{vmatrix} = \\ \begin{vmatrix} -4 \end{vmatrix} + 7 =$$

**11.** Solve for *u*.

$$\left|5_{u}-10\right|=0$$

**12.** Solve for u.

$$\left|4u\right| - 32 = -32$$

**13.** Solve for x.

$$\frac{2}{4} = \frac{x}{6}$$

Simplify your answer as much as possible.

**14.** Solve the following proportion for v.

$$\frac{3}{8} = \frac{v}{11}$$

Round your answer to the nearest tenth.

**15.** Solve for *x*.

$$\frac{12}{x+3} = \frac{8}{5}$$

Simplify your answer as much as possible.

**16.** Solve for *x*.

$$\frac{x+8}{18} = \frac{2}{3}$$

Simplify your answer as much as possible.

17. There is a sales tax of \$25 on an item that costs \$310 before tax. The sales tax on a second item is \$10. How much does the second item cost before tax?

**18.** Leila made \$95 for 5 hours of work.

At the same rate, how much would she make for 9 hours of work?

**19.** Solve for q.

$$q - r + s = P$$

**20.** Solve for *m*.

$$mx = y$$

**21.** Solve for *x*.

7(x+a) = y

## Unit 2 Test #1 Answers for class 8A - A

**1.**  $3_x + 7 = 9$ **2.** 4*m* = 52 **3.** W = 14**4.** v = 304**5.** *y* = 4 6. u = -4**7**. u = -10**8**. *u* = 5 **9.** |-4+9|=5|-4|+9=13**10.** |-4+7|=3|-4|+7=11**11**. *u* = 2

**12.** *u* =0

**13.** *x* = 3

**14.** *v* = 4.1

**15.**  $x = \frac{9}{2}$ 

**16.** x = 4

**17.** \$124

**18.** \$171.

**19.** q = P + r - s

**20.**  $m = \frac{y}{x}$ 

**21.**  $x = \frac{y}{7} - a$