Class Name: 8A-A
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 $y$.

$$
-20=-5 y
$$

Simplify your answer as much as possible.
6. Solve for $u$.

$$
-6+4 u=-22
$$

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 $u$.

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

Simplify your answer as much as possible.
9. Evaluate the following.

$$
\begin{aligned}
& |-4+9|= \\
& |-4|+9=
\end{aligned}
$$

10. Evaluate the following.

$$
\begin{aligned}
& |-4+7|= \\
& |-4|+7=
\end{aligned}
$$

11. Solve for $u$.

$$
|5 u-10|=0
$$

12. Solve for $u$.

$$
|4 u|-32=-32
$$

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 $m$.

$$
m x=y
$$

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

