## Two-Step Equations (Including Word Problems)

Example \#1-Practice

| a two-step equatior |  |
| :---: | :---: |
| Review: Solve each one-step equation. Show your work. | Solvin, |
| 1) $n-8=-3$ |  |
| 2) $-2 m=-24$ | 3. Cheok |
| 3) $\frac{m}{2}=-7$ |  |
| 4) $\frac{2}{3} y=20$ |  |

Try It Out (show you

## $6 m-8=16$

Example \#2-T
A group of four people ate dinner at coupon for $\$ 10$ off their bill. They d bill equally. They each paid $\$ 14$. Wri determine the amount of the total bil

1. Define the variable:
2. Write the equation and solve:
$\frac{k}{-3}+3=-2$

Notes, Worksheets, Exit Slip

Possible Directions:

First two pages:

1. Copy enough for all students (not back-to-back)
2. Go through the example as a whole class, having students fill out the notes page as you go.
3. With the two practice problems, you can complete it as a whole class or give time to try the two problems independently or with partners.
4. Have students cut both pages out and glue them into their notebooks.

## Extra Practice Sheet:

Can be assigned for homework or inclass practice, or given as an

Cut along the dotted lines and glue it into your notebook.


Cut along the dotted lines and glue it into your notebook.
Learning Target: I can write and solve a two-step equation from a word problem Example \#1-Practice Melanie saves $\$ 20$ every month in her savings account. She withdrew $\$ 60$ one time to go shopping. She now has $\$ 280$ in her account. Write and solve an equation to determine how many months she has been saving

1. Define the variable:
2. Write the equation and solve:
3. Write your answer in a sentence:
Example \#2 - Try it Out!
A group of four people ate dinner at a restaurant. They divided the bill equally and each person left a $\$ 2$ tip. They each paid \$14. Write and solve an equation to determine the amount of the total bill.
4. Define the variable:
5. Write the equation and solve:
6. Write your answer in a sentence:

Show the inverse operations and check your answer by substitution.


7 Michelle is a server in a restaurant. On a weekend night, Michelle earned $\$ 4$ an hour and $\$ 65$ in tips. She made a total of $\$ 93$. Write and solve an equation to determine how many hours she worked.

On Monday, Ken spent half of his money on a new game. The next day he earned $\$ 12$ mowing lawns. He now has $\$ 32$. How much money did Ken have before bought the game?

|  |  | $\begin{aligned} & \text { N } \\ & + \\ & \stackrel{\rightharpoonup}{N} \\ & \text { II } \\ & 0 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} N \mid x \\ + \\ \stackrel{11}{\prime} \\ v \end{gathered}$ | $\begin{aligned} & \infty \\ & 1 \\ & N \\ & \times \\ & ॥ \\ & \stackrel{1}{0} \end{aligned}$ | 200 |



Cut along the dotted lines and glue it into your notebook.


Cut along the dotted lines and glue it into your notebook.
Learning Target: I can write and solve a two-step equation from a word problem
Example \#1-Practice
Melanie saves $\$ 20$ every month in her savings account. She withdrew $\$ 60$ one time to go shopping. She now has $\$ 280$ in her account.
Write and solve an equation to determine how many months she has been saving.

1. Define the variable:
Let $m$ represent the number of months
2. Write the equation and solve:

$$
20 m-60=280
$$

$m=17$
3. Write your answer in a sentence:
She was saving for 17 months
Example \#2-Try it Out!
A group of four people ate dinner at a restaurant. They divided the remainder of the bill equally and each person left an additional $\$ 2$ for the tip. They each paid $\$ 14$. Write and solve an equation to determine the amount of the total bill?

1. Define the variable:
Let b represent the total bill
2. Write the equation and solve:

$$
\begin{array}{r}
b / 4+2=14 \\
b=48
\end{array}
$$

3. Write your answer in a sentence:
The bill was $\$ 48$

Two-Step Equations
Practice Worksheet

Name:
Date:
Show the inverse operations and check your answer by substitution.


7 Michelle is a server in a restaurant. On a weekend night, Michelle earned $\$ 4$ an hour and $\$ 65$ in tips. She made a total of $\$ 93$. Write and solve an equation to determine how many hours she worked

$$
\begin{aligned}
4 h+65 & =93 \\
h & =7
\end{aligned}
$$

Michelle worked 7 hours
Ken spent half of his money. The next day he earned $\$ 12$. He now has $\$ 32$. How much money did Ken have before he spent his money?

$$
\begin{aligned}
& m / 2+12=32 \\
& m=\$ 40 \\
& \text { Ken had } \$ 40 \text { before he spent anything. }
\end{aligned}
$$

| Two-Step Equa | Name: |
| :---: | :---: |
| $\begin{gathered} 5 y+15=20 \\ y=1 \end{gathered}$ | $\begin{gathered} 6-2 x=10 \\ x=-2 \end{gathered}$ |
| $\begin{gathered} \frac{1}{2} x+10=4 \\ y=-12 \end{gathered}$ | $\begin{gathered} \frac{x}{2}+1=7 \\ y=12 \end{gathered}$ |

Angie bought tickets for her and her friends to go to the movies. Tickets cost $\$ 8$. She also spent $\$ 6$ on food. She spent a total of $\$ 46$. Write an equation to determine how many tickets Angie bought. Let $t$ represent the number of tickets.

$$
8 t+6 \quad=\quad 46
$$

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