5 The sum of a number and 3 is -2 . Find the number.

5 Three more than the product of a number and 4 is 15 . Find the number.

6 Five less than three times a number is 1 . Find the number.

7 The product of 2 and a number is increased by 9 . The result is -17 . What is the number?

8 If you subtract 3 from twice a number, the result is 25 . What is the number?

| $3 x+2=23$ | $2-2 y-7=3$ |
| :--- | :--- |
| $3-3 n-8=7$ | ப立 $\frac{k}{-2}+7=10$ |

EqUations invorving sudtraction
$\begin{array}{llll}6 x-2=1 & 7 \\ y-3=4 & 8 r-4=-2 & \text { Q }-9=q-8\end{array}$

10 If you decrease a number by 4 , the result is -5 . Find the number.

# Equations invorving multiplication 

| $120=4 z$ | $2-8 g=24$ | 3 | $30=-6 e$ |
| :--- | :--- | :--- | :--- |$\quad$ प् $-9 h=-72$

5 The product of a number and 5 is -35 . Find the number.

## Equations invorving Division

$$
\begin{array}{ll}
6 \frac{x}{4}=7 & 7 \frac{m}{-6}=6 \\
8-12=\frac{r}{2} & q-15=\frac{g}{-3}
\end{array}
$$

10 The quotient of a number and -4 is 5 . What is the number?

$$
\times \text { Ohe- Step } \div
$$

## Answer Key!




5 Three more than the product of a number and 4 is 15 . Find the number.

$$
4 n+3=15 \quad n=3
$$

6 Five less than three times a number is 1 . Find the number.

$$
3 n-5=1 \quad n=2
$$

7 The product of 2 and a number is increased by 9 . The result is -17 .
What is the number?

$$
2 n+9=-17
$$

$$
n=-13
$$

8 If you subtract 3 from twice a number, the result is 25 . What is the number?

$$
\begin{array}{cc}
2 n-3=25 & n=14 \\
& T M \sim Q-G+\Omega \square
\end{array}
$$



## EQUations involving subtraction



10 If you decrease a number by 4 , the result is -5 . Find the number.

$$
n-4=-5
$$

$\square$

## Equations involving Multiplication



5 The product of a number and 5 is -35 . Find the number.

$$
5 n=-35
$$

## Equations involving Division

$$
\begin{array}{rrr}
6 \frac{x}{4}=7 & 7 \frac{m}{-6}=6 \\
x=28 & m=-36 \\
8-12=\frac{r}{2} & 9-15=\frac{g}{-3} \\
r=-24 & g=45
\end{array}
$$

10 The quotient of a number and -4 is 5 . What is the number?

$$
\frac{n}{-4}=5 \quad n=-20
$$

$$
\times \text { one- step : }
$$

## Dihections:

Print pages $1 \& 2,3 \& 4$ ( $5 \& 6,7 \& 8$ for the answer key) front to back. On my printer, I use the option to print double-sided and to flip along the short edge. If you print single-sided and then photocopy, you must manually flip pages 2 and 4 before placing them in the copy machine.

Line up the bottom of the two pages as shown:

$$
\begin{aligned}
& \times \text { } \text { One- steD } \div \\
& \text { Tw -steD }
\end{aligned}
$$

Fold over the top portion and secure with a few staples.
The final product should look like this:



## Equations invowing Adition

(1) $y+6=9$
(2) $x+3=1$
(3) $-3=a+4$
(4) $14+m=20$
(5) The sum of a number and 3 is -2 . Find the number.
(5) Three more than the product of a number and 4 is 15 . Find the number.
(6) Five less than three times a number is 1 . Find the number.
(7) The product of 2 and a number is increased by 9 . The result is -17 . What is the number?
(8) If you subtract 3 from twice a number, the result is 25 . What is the number?
Two-Sterp
(1) $3 x+2=23$
(2) $-2 y-7=3$
$\begin{array}{ll}\text { (3) }-3 n-8=7 & \text { (4) } \frac{k}{-2}+7=10\end{array}$

Equations inwowing stbraction
(6) $x-2=1$
(7) $y-3=4$
(8) $r-4=-2$
(9) $-9=q-8$
(10) If you decrease a number by 4 , the result is -5 . Find the number.

+ One- Step -

Equations invoning Mutiplication
(1) $20=4 z$
(2) $-8 g=24$
(3) $30=-6 \mathrm{e}$
(4) $-9 \mathrm{~h}=-72$
(5) The product of a number and 5 is -35 . Find the number

## Equations invorving Bivision

(6) $\frac{x}{4}=7$
(7) $\frac{m}{-6}=6$
(8) $-12=\frac{r}{2}$
(9) $-15=\frac{9}{-3}$
(10) The quotient of a number and -4 is 5 . What is the number?

$$
\times \text { One-Ster } \div
$$

## Answer Key!



## Equations invoking Addition

(1) $y+6=9$
(2) $\begin{array}{r}x+3=1 \\ -3-3 \\ \hline x=-2\end{array}$
(3) $-3=a+4$
(4) $14+m=20$ -6 -6

| $-4 \quad-4$ |
| :--- |
| $a=-7$ |


| $-14 \quad-14$ |
| ---: | ---: |
| $m=6$ |

(5) The sum of a number and 3 is -2 . Find the number.

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

(5) Three more than the product of a number and 4 is 15 . Find the number.

$$
4 n+3=15 \quad n=3
$$

(6) Five less than three times a number is 1 . Find the number.

$$
3 n-5=1 \quad n=2
$$

(7) The product of 2 and a number is increased by 9 . The result is -17 . What is the number?

$$
2 n+9=-17 \quad n=-13
$$

(8) If you subtract 3 from twice a number, the result is 25 . What is the number?

$$
2 n-3=25 \quad n=14
$$

## Two-Step

(1) $3 x+2=23$

| $-2 \quad-2$ |
| :--- |
| $\frac{3 x}{3}=\frac{21}{3}$ |
| $x=7$ |

(3)

$$
\begin{array}{r}
-3 n-8=7 \\
+8 \quad+8 \\
\hline \frac{-3 n=\frac{15}{-3}}{\frac{-3}{-3}}+
\end{array}
$$

(2) | $-2 y-7=3$ |
| :---: |
| $+7 \begin{array}{r}+7\end{array}$ |
| $\frac{-2 y}{-2}=\frac{10}{-2}$ |
| $y=-5$ |

(4) $\frac{k}{-2}+7=10$

$$
\begin{array}{r}
\frac{-7}{} \quad-7 \\
\frac{(-2) \frac{k}{-2}=3(-2)}{k=-6}
\end{array}
$$

Equations invoning stetraction

(6) | $x-2=1$ |
| :---: |
| $+2 \quad+2$ |
| $x=3$ |

(7) $y-3=4$
(8) $r-4=-2$
(9) $-9=q-8$

| $+4 \quad+4$ |
| :--- | :--- |
| $r=2$ |

$$
\begin{array}{lr}
+8 & +8 \\
\hline a=-1
\end{array}
$$

(10) If you decrease a number by 4 , the result is -5 . Find the number.

$$
n-4=-5
$$

$$
n=-1
$$

## Equations invoring Mutipilication

(1) $\frac{20}{4}=\frac{4 z}{4}$
(2) $\frac{-8 \mathrm{~g}}{-8}=\frac{24}{-8}$
(3) $\frac{30}{-6}=\frac{-6 e}{-6}$
(4) $\frac{-9 h}{-9}=\frac{-72}{-9}$
$q=-3$
$e=-5$
$h=8$
(5) The product of a number and 5 is -35 . Find the number

$$
5 n=-35 \quad n=-7
$$

## Equations inworing Bivision

(6) (4) $\frac{x}{4}=7$ (4)
(7) $(-6) \frac{m}{-6}=6(-6)$
$x=28$

$$
m=-36
$$

(8) $2+12=\frac{r}{2}(2)$
$r=-24$
(96-3)-15 $=\frac{9}{-3}(-3)$

$$
q=45
$$

(10) The quotient of a number and -4 is 5 . What is the number?

$$
\frac{n}{-4}=5 \quad n=-20
$$

$$
\times \text { One-Ster } \div
$$

## (C)

## Directions:

Print pages $1 \& 2,3 \& 4$ ( $5 \& 6,7 \& 8$ for the answer key) front to back. On my printer, I use the option to print double-sided and to flip along the short edge.

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