



Name _____ Class _____ Date _____

1 The difference of a number and twenty-three is another number.
Which linear equation represents this correctly?

- A $x - y = 23$
- B $x - 23 = y$
- C $2x - 23 = y$
- D $x - 23 = 2y$

3 The sum of two times a number and fifteen is three times another number.
Which linear equation represents this correctly?

- A $2x + 15 = 3y$
- B $3x + 15 = 2y$

5
T
n
V
th
A
E
C
D



PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7
A
h
V
r

- A $80x + 150 = y$
- B $80x + y = 150$
- C $150 + y = 80x$
- D $80y + x = 150$

9 Solve the following 2-step linear equation for y if $x = -4$:

$$2x - 5y = 57$$

- A 13
- B 10
- C -10
- D -13

2 The sum of three times a number and half of another number is seventy-two.
Which linear equation represents this correctly?

- A $3x + \frac{1}{2}y = 72$
- C $3x + y = 72$
- B $3x - \frac{1}{2}y = 7$
- D $3x + \frac{1}{2}y = 7$

4 The difference of half a number and four times another number is sixteen.
Which linear equation represents this correctly?

- A $\frac{1}{2}x + 4y = 16$
- C $\frac{1}{2}x - 4y = 16$

10 Solve the following 2-step linear equation for y if $x = -2$:

$$4x + 7 = y$$

- A -15
- B -1
- C 1
- D 15



ANSWER KEY

The difference of a number and twenty-three is another number.

Which linear equation represents this correctly?

- A $x - y = 23$
- B $x - 23 = y$
- C $2x - 23 = y$
- D $x - 23 = 2y$

(b)

The sum of three times a number and half of another number is seventy-two.

Which linear equation represents this correctly?

- A $3x + \frac{1}{2}y = 72$
- B $3x - \frac{1}{2}y = 7$
- C $3x + y = 72$
- D $3x + \frac{1}{2}y = 7$

(d)

The sum of two times a number and fifteen is three times another number.

Which linear equation represents this correctly?

- A $2x + 15 = 3y$
- B $3x + 15 = 2y$
- C $2x - 15 = 3y$
- D

(a)

The difference of half a number and four times another number is sixteen.

Which linear equation represents this correctly?

- A $\frac{1}{2}x + 4y = 16$
- B $\frac{1}{2}x - 16 = 4y$
- C $\frac{1}{2}x - 4y = 16$
- D $\frac{1}{2}x + 16 = 4y$

(c)



PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- A $80x + 150 = y$
- B $80x + y = 150$
- C $150 + y = 80x$
- D $80y + x = 150$

- B 3.75
- C 4
- D 4.3

Solve the following 2-step linear equation for y if $x = -4$:

$2x - 5y = 57$

- A 13
- B 10
- C -10
- D -13

(d)

Solve the following 2-step linear equation for y if $x = -2$:

$4x + 7 = y$

- A -15
- B -1
- C 1
- D 15

(b)