

Name \_\_\_\_\_ Date \_\_\_\_\_

Use the given mean to find the missing number in each data set.

-1, 10, 13, \_\_\_\_\_ Mean = 7

-10, -20, 4, -9, \_\_\_\_\_ Mean = -13

-22, 39, -8, \_\_\_\_\_ Mean = -6

37, -38, \_\_\_\_\_ Mean = -14

## Answer Key

Use the given mean to find the missing number in each data set.

$$-1, 10, 13, \underline{6} \quad \text{Mean} = 7$$

$$(-1 + 10 + 13 + x) / 4 = 7$$

$$(22 + x) / 4 = 7$$

$$22 + x = 7 \times 4$$

$$x = 28 - 22$$

$$x = 6$$

$$-10, -20, 4, -9, \underline{-30} \quad \text{Mean} = -13$$

$$(-10 + -20 + 4 + -9 + x) / 5 = -13$$

$$(-35 + x) / 5 = -13$$

$$-35 + x = -13 \times 5$$

$$x = -65 - -35$$

$$x = -30$$

$$-22, 39, -8, \underline{-33} \quad \text{Mean} = -6$$

$$(-22 + 39 + -8 + x) / 4 = -6$$

$$(9 + x) / 4 = -6$$

$$9 + x = -6 \times 4$$

$$x = -24 - 9$$

$$x = -33$$

$$37, -38, \underline{-41} \quad \text{Mean} = -14$$

$$(37 + -38 + x) / 3 = -14$$

$$(-1 + x) / 3 = -14$$

$$-1 + x = -14 \times 3$$

$$x = -42 - -1$$

$$x = -41$$