



# Linear Equations Word Problems Worksheets

1. Three consecutive odd integers have a sum of 3. What are the numbers?

*Let  $x$  be the first odd number.*

$$x + (x + 2) + (x + 4) = 3$$

$$3x + 6 = 3$$

$$3x = -3$$

$$x = -1$$

*The three consecutive odd integers are  $-1$ ,  $1$ , and  $3$ .*

2. Each month, Liz pays \$35 to her phone company just to use the phone. Each text she sends costs her an additional \$0.05. In March, her phone bill was \$72.60. In April, her phone bill was \$65.85. How many texts did she send each month?

*Let  $x$  be the number of texts she sent in March.*

$$35 + 0.05x = 72.60$$

$$3. 0.05x = 37.6$$

$$x = \frac{37.6}{0.05}$$

$$x = 752$$

*She sent 752 texts in March.*

*Let  $y$  be the number of texts she sent in April.*

$$35 + 0.05y = 65.85$$

$$0.05y = 30.85$$

$$y = \frac{30.85}{0.05}$$

$$y = 617$$

*She sent 617 texts in April.*

3. Claudia is reading a book that has 360 pages. She read some of the book last week. She plans to read 46 pages today. When she does, she will be  $\frac{4}{5}$  of the way through the book. How many pages did she read last week?

*Let  $x$  be the number of pages she read last week.*

$$x + 46 = \frac{4}{5}(360)$$

$$x + 46 = 288$$

$$x = 242$$

*Claudia read 242 pages last week*

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