# Linear Equations Word Problems Worksheets

1. Two hundred and fifty tickets for the school dance were sold. On Monday, $35$ tickets were sold. An equal number of tickets were sold each day for the next five days. How many tickets were sold on one of those days?

2. Shonna skateboarded for some number of minutes on Monday. On Tuesday, she skateboarded for twice as many minutes as she did on Monday, and on Wednesday, she skateboarded for half the sum of minutes from Monday and Tuesday. Altogether, she skateboarded for a total of three hours. How many minutes did she skateboard each day?

3. The sum of four consecutive integers is $\mathbf{74}$. Write an equation, and solve to find the numbers.

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1. Two hundred and fifty tickets for the school dance were sold. On Monday, $35$ tickets were sold. An equal number of tickets were sold each day for the next five days. How many tickets were sold on one of those days?

*Let $x$ be the number of tickets sold on one of those days.*

$$250 = 35 + 5x$$
$$215 = 5x$$
$$43 = x$$

*$43$ tickets were sold on each of the five days.*

2. Shonna skateboarded for some number of minutes on Monday. On Tuesday, she skateboarded for twice as many minutes as she did on Monday, and on Wednesday, she skateboarded for half the sum of minutes from Monday and Tuesday. Altogether, she skateboarded for a total of three hours. How many minutes did she skateboard each day?

*Let $x$ be the number of minutes she skateboarded on Monday.*

$$x + 2x + \frac{2x + x}{2} = 180$$
$$\frac{2x}{2} + \frac{4x}{2} + \frac{2x + x}{2} = 180$$
$$\frac{9x}{2} = 180$$
$$9x = 360$$
$$x = 40$$

*Shonna skateboarded $40$ minutes on Monday, $80$ minutes on Tuesday, and $60$ minutes on Wednesday.*

3. The sum of four consecutive integers is $\mathbf{74}$. Write an equation, and solve to find the numbers.

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

$$\boldsymbol{x + (x + 1) + (x + 2) + (x + 3) = 74}$$
$$\boldsymbol{4x + 6 = 74}$$
$$\boldsymbol{4x = 68}$$
$$\boldsymbol{x = 17}$$

The numbers are $\mathbf{17}$, $\mathbf{18}$, $\mathbf{19}$, and $\mathbf{20}$.