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## Two-Step Inequality Word Problems

Write and solve an inequality for each problem. Then fill in the blank to answer the question.
A taxi company charges a flat fee of $\$ 3.50$ per ride plus an additional $\$ 0.65$ per mile. If Ian has only $\$ 10$, what is the farthest he can ride?

$$
\begin{gathered}
0.65 n+3.50 \leq 10 \\
0.65 n \leq 6.50 \\
n \leq 10
\end{gathered}
$$

Ian can ride at most

Hannah earned 140 prize tickets playing pinball at Gamer Grounds. She spends 85 tickets on a bracelet and the rest of her tickets on candies that cost 10 tickets each. At most, how many candies can Hannah get?

$$
\begin{array}{cc}
10 n+85 \leq 140 & \text { Since Hannah cannot } \\
10 n \leq 55 & \text { get O.5 of a candy, } \\
n \leq 5.5 & \text { she can get at most } 5 \\
\text { candies. }
\end{array}
$$

Hannah can get at most $\square$ 5 candies.

3
The student council at Deer Creek Middle School is organizing a dance to raise money for their end-of-year trip. They want to raise at least $\$ 400$. Tickets are priced at $\$ 4$ each, and they already spent $\$ 25$ on decorations. What is the minimum number of tickets they have to sell to reach their goal?

$$
\begin{array}{cc}
4 n-25 \geq 400 & \text { Since they cannot sell } \\
4 n \geq 425 & 106.25 \text { tilkets, they } \\
n \geq 106.25 & \text { need to sell at least 107. }
\end{array}
$$

They have to sell at least $\qquad$ 107 tickets to reach their goal.

Trisha is saving $\$ 25$ a week to go on a vacation. She determines that she will need $\$ 350$ for the vacation, but she also wants to have over $\$ 100$ left in her bank account after the trip. How many weeks should Trisha save?

$$
\begin{gathered}
25 n-350>100 \\
25 n>450 \\
n>18
\end{gathered}
$$

Since Trisha needs to leave more than $\$ 100$ in her account, she needs to save for 19 weeks.

Trisha should save for $\qquad$ 19 weeks.
$\qquad$

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5
Charlotte is saving money for a new phone, and she wants to have at least $\$ 545$ saved before she goes to buy one. So far, she has saved $\$ 225$. She plans to save $\$ 40$ each week going forward. In how many weeks will Charlotte have saved enough to buy a phone?

$$
\begin{gathered}
40 n+225 \geq 545 \\
40 n \geq 320 \\
n \geq 8
\end{gathered}
$$

Charlotte will have enough money in $\qquad$ weeks.

6
Aaron has $\$ 25$ to spend at the carnival. Admission is $\$ 4$ and the ride tickets are $\$ 1.25$ each. What is the maximum number of ride tickets that Aaron can buy?

$$
\begin{array}{cc}
1.25 n+4 \leq 25 & \text { Since Aaron cannot } \\
1.25 n \leq 21 & \text { buy } 0.8 \text { of a ticket, he } \\
n \leq 16.8 & \text { can buy at most } 16
\end{array}
$$

Aaron can buy at most $\qquad$ 16 tickets.

Jamal has a $\$ 50$ gift card to his favorite comic book store, Hero Destination. The store is running a deal where all of their comics are $\$ 4.75$ each if you buy them online. If the store charges a flat shipping fee of $\$ 7.25$, what is the maximum number of comic books Jamal can buy without going over $\$ 50$ ?

$$
\begin{gathered}
4.75 n+7.25 \leq 50 \\
4.75 n \leq 42.75 \\
n \leq 9
\end{gathered}
$$

Jamal can buy at most $\qquad$ comic books.

8
Wyatt bought $\$ 40$ worth of materials to make braided keychains. If Wyatt sells his keychains for $\$ 2.50$ each, how many keychains must he sell to earn a profit?

$$
\begin{array}{cc}
2.50 n-40>0 & \text { Since Wyatt has to make } \\
2.50 n>40 & \text { more than } \$ 40, \text { he } \\
n>16 & \text { needs to sell at least } 17 \\
\text { keychains. }
\end{array}
$$

Wyatt must sell at least $\square$ keychains.

