$\qquad$ Date $\qquad$
$\qquad$

## ${ }^{\text {LEsson }}$ Problem Solving

## 3-4 Solving Two-Step and Multi-Step Inequalities

Write and solve an inequality for each situation.

1. Jillene scored 24 points in her first game. If she averages over 20 points for two games, she will get a prize. How many points should Jillene score in the second game to get a prize?

## Solution:

Let $p=$ number of points in 2 nd game

$$
\begin{aligned}
\frac{p+24}{2} & >20 \\
p+24 & >40 \\
p & >16
\end{aligned}
$$

2. Marcus has a job selling cell phones. He is paid $\$ 1,500$ plus $15 \%$ of his sales each month. He needs to earn at least $\$ 2,430$. For what amount of sales will Marcus earn \$2,430?

Let $s=$ needed sales
$1,500 \div$ $\qquad$ $s \geq 2,430$
$s \geq$ $\qquad$

The table below shows summer jobs and the pay for each.

## Use this information to answer questions 3-5.

3. Benedict has $\$ 91$ saved from last year and will baby-sit to earn enough to buy a mountain bike that costs at least $\$ 300$. What number of hours $h$ can Benedict baby-sit to make enough money?

| Job | Pay |
| :---: | :---: |
| Mowing Lawns | $\$ 15$ per lawn |
| Baby-Sitting | $\$ 5.50$ per hour |
| Tutoring | $\$ 9$ per session |

A $h \geq 14$
B $h \geq 23$
C $h \geq 38$
4. Ricardo has agreed to tutor. He owes his older brother $\$ 59$ and would like to end the summer with at least $\$ 400$ in savings. How many sessions $s$ can Ricardo tutor to make enough money?
F $s \geq 31$
G $s \geq 38$
H $s \geq 51$
5. Charlie will mow his neighbor's lawn each week and will also baby-sit some hours. If he makes $\$ 100$ or more each week, his parents will charge him rent. How many hours $h$ should Charlie baby-sit each week so he doesn't pay rent?
A $h \leq 15$
B $h \geq 15$
C $h \leq 21$
$\qquad$ Date $\qquad$
$\qquad$

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Let $s=$ needed sales

$$
\begin{aligned}
1,500 \div \frac{0.15}{} s & \geq 2,430 \\
s & \geq 6,200
\end{aligned}
$$

The table below shows summer jobs and the pay for each.

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(A) $h \leq 15$

B $h \geq 15$
C $h \leq 21$

