Lesson \# 1: Persevere to solve problems. Plan, solve, and check using ratio reasoning.

| 1. Solving ratio reasoning math |
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| problems can require a plan and |
| perseverance. Ratio reasoning |
| is a way to compare 2 quantities. |
| Which ratio compares weekdays |
| to weekend days? |

hair

2. Use ratio reasoning to show proportions in different ways:

$$
\begin{gathered}
2: 7 \\
2 \text { to } 7
\end{gathered}
$$



Find another way to express this ratio.

3. At this rate or Find the ratio are key words that often, but not always, pose a problem to be solved with ratio reasoning.

Which problem below needs ratio reasoning in order to be solved?
What's $1 / 3$
of 459 ?


Jim walks 3 MPH.
At this rate, he walks ? miles in 90 minutes.
nose/mouth
6. Plan a solution pathway to solve: Pat mixes cups of red and white frosting at a $2: 3$ ratio to get pink frosting. How many cups of pink frosting will Pat have after using 6 cups of white frosting?

8. The ratio of kids to adults at the movie in the park is $4: 1$.

Total kids $=84$
Total adults = ?

9. Allison counted 56 cars parked in the lot. Eight parking spaces remained empty.

Plan, solve, and check to find the ratio of empty to full parking spaces
under paws

## Lesson 1



