

Name: Key
Date: _____

Mr. Johnson
Math 8

Lesson 3.8 – Solving Problems with Fractions
(AKA: *The most important section of the chapter*)

Investigate

Use your excellent fraction knowledge complete the Investigate activity on page 147 of your textbook. Feel free to work with a partner. Be prepared to share your solution with the class. Use any of the manipulatives in the classroom if you think they may be useful and be sure to put your solution in the space below.

Tips to Solve Word Problems:

- think about the problem (what information do you have, what is it asking you to do)
- use a model or picture
- focus on key words
 - o What are some key words that might be used to disguise a mathematical operation?

get students to
come up with
words

Examples:

1. Ronald McDonald's monthly salary to flip burgers is \$2200. He uses $\frac{1}{3}$ of his money to pay for his nasty cheeseburger addiction. How much does his addiction cost him?

$$\begin{aligned} & \$2200 \times \frac{1}{3} \\ & = \frac{2200}{1} \times \frac{1}{3} \\ & = \frac{2200}{3} \end{aligned}$$

$$\begin{aligned} & = \$733.\overline{33} \quad (\text{since we are deal with} \\ & \quad \text{money round to nearest} \\ & \quad \text{cent}) \\ & = \$733.33 \end{aligned}$$

(Wow, alot of cheeseburgers)

2. Steve Nash scored 32 points that other night in a basketball game. This was $\frac{1}{4}$ of his team's total points. How many points did the rest of the Phoenix Suns score that night?

$$\begin{aligned} & 32 \div \frac{1}{4} \\ & = \frac{32}{1} \times \frac{4}{1} \\ & = 128 \text{ total points scored} \end{aligned}$$

If Steve Nash scored 32, then the rest of the team scored

$$128 - 32 = \underline{\underline{96 \text{ points}}}$$

Assignment:

Pg. 150-152
#s 1, 3-11