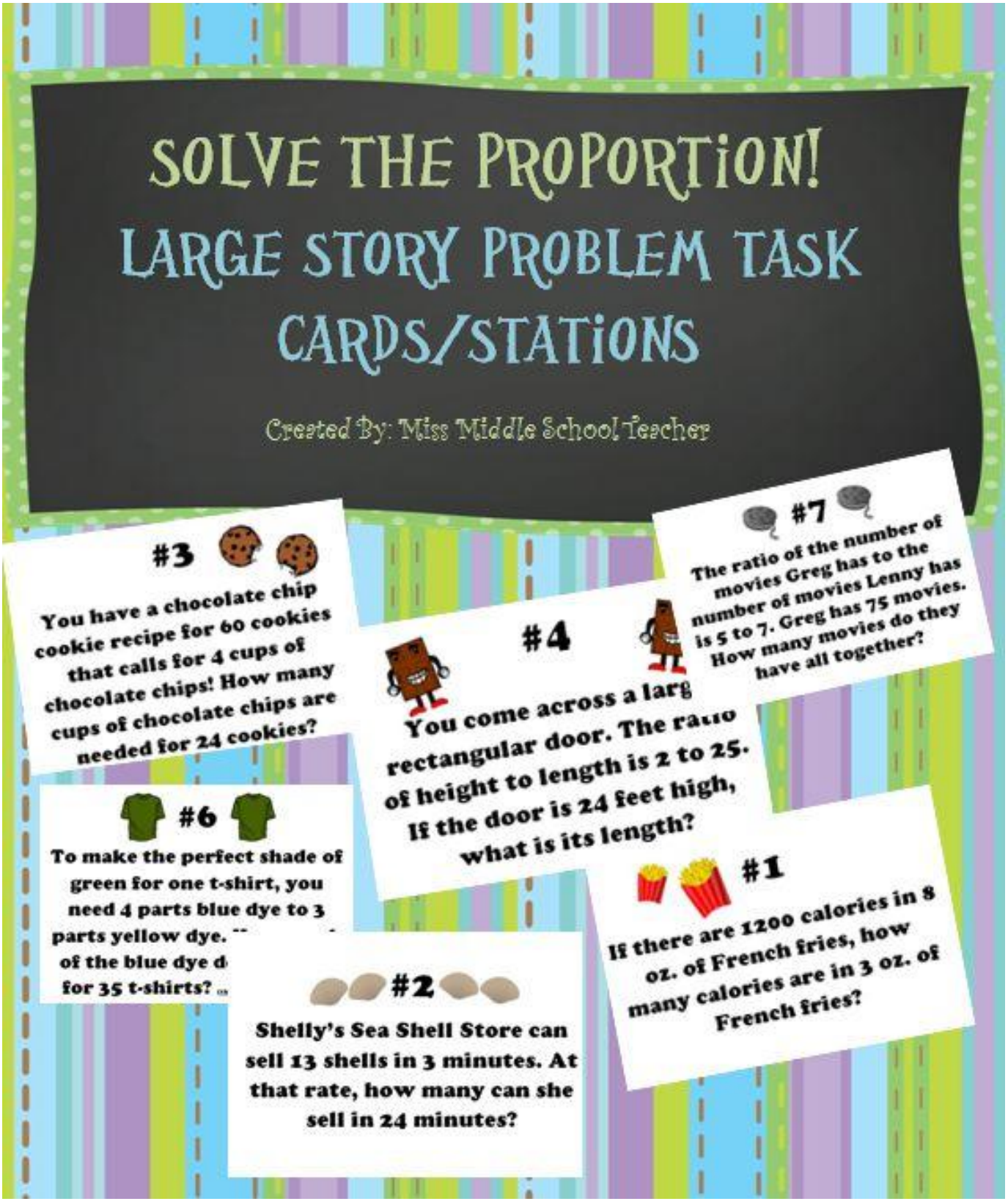

TEACHER NOTES:

1) Time: 1 class period (55-60 minutes)
2) BEFORE CLASS:
    a. I post all 13 signs around the classroom. I usually take a 12x18 piece of construction paper and fold it in half for each sign. Then, I tape the sign inside the colored construction paper. That way, students get to each station and lift the flap to view the problem.
    b. I have a class set of the "Solve the Proportion" page made
3) When class starts, I have students get into pairs (sometimes I let them choose, other times I choose for them)
4) I let them know that their goal for the day is to become really good at solving proportions Depending on the class, I will sometimes make it a friendly competition. The team that gets the most correct at the end gets a small prize. ☺
5) I let them know that each group will begin at a different station and when I say, "GO!", they have 1:30-2:00 to figure out the answer to their problem.
6) After 1:30-2:00, I ring a bell and the students move in a clockwise direction around the room. They love it because it keeps them moving for most of the hour!
7) This continues until all groups have had a chance at each of the 13 stations.
8) Once the students have finished, we go back to our seats and go over the answers. If we're doing it as a competition, I have students switch their form with another group for correcting. We then correct and discuss the answers as a class.
9) This is a great way to reinforce the math concepts we've been discussing in class!

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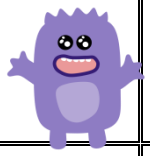
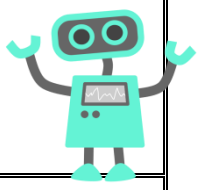
Solve the Proportion Challenge!

1)	2)	3)
4)	5)	6)
7) 	8)	9)
10)	11)	12) 
13)	SCORE:_____/13	

Solve the Proportion Challenge! **KEY**

1) **If there are 1200 calories in 8 oz. of French fries, how many calories are in 3 oz. of French fries?**

$\frac{1200}{8} = \frac{x}{3}$ x=450 calories

2) **Shelly's Sea Shell Store can sell 13 shells in 3 minutes. At that rate, how many can she sell in 24 minutes?**

$\frac{13}{3} = \frac{x}{24}$ x=104 shells

3) **You have a chocolate chip cookie recipe for 60 cookies that calls for 4 cups of chocolate chips! How many cups of chocolate chips are needed for 24 cookies?**

$\frac{60}{4} = \frac{24}{c}$ c=1.6 cups

4) **You come across a large rectangular door. The ratio of height to length is 2 to 25. If the door is 24 feet high, what is its length?**

$\frac{2}{25} = \frac{24}{h}$ h=300 feet

5) **Johnny noticed that his heart was racing after his track meet. It was beating 12 times every 5 seconds. How many times was it beating per minute (60 seconds)?**

$\frac{12}{5} = \frac{b}{60}$ b=144 times

6) **To make the perfect shade of green for one t-shirt, you need 4 parts blue dye to 3 parts yellow dye. How much of the blue dye do you need for 35 t-shirts? (there is an extra step to this one)**

$\frac{4}{3} = \frac{4}{4+3} = \frac{4}{7} = \frac{b}{35}$

b=20 parts blue dye

7) **The ratio of the number of movies Greg has to the number of movies Lenny has is 5 to 7. Greg has 75 movies. How many movies do they have all together?**

$\frac{5}{7} = \frac{75}{l}$ l=105 movies

Total # of movies = 180

8) **At the Super School of Science, the ratio of boys to girls is 6:5. If there are 1500 boys, how many girls are there?**

$\frac{6}{5} = \frac{1500}{g}$ g=1250 girls

9) **You biked 15 miles in 45 minutes. At this rate, how many miles will you bike in 3 hours? (You will have to convert here!)**

3 hours = 180 min, so...

$\frac{15}{45} = \frac{m}{180}$ m=60 miles

10) **At the local humane society, the number of cats to dogs adopted is 2 to 7. If 98 dogs were adopted last month, how many cats were adopted? How many cats and dogs were adopted last month?**

$\frac{2}{7} = \frac{c}{98}$ c=28 cats

28 cats+98 dogs=126 adopted

11) **On a map, 1 centimeter is equal to 65 miles. If two cities are 292.5 miles apart, how many centimeters apart will they be on the map?**

$\frac{1}{65} = \frac{c}{292.5}$ c=4.5 cm

12) **If you travel 705 miles in 5 hours, how many miles will you travel in 13 hours at this rate? The city you are traveling to is 2000 miles away; will you get there in 13 hours?**

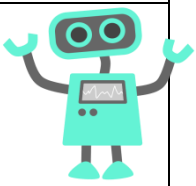
$\frac{705}{5} = \frac{m}{13}$ m=1833 miles

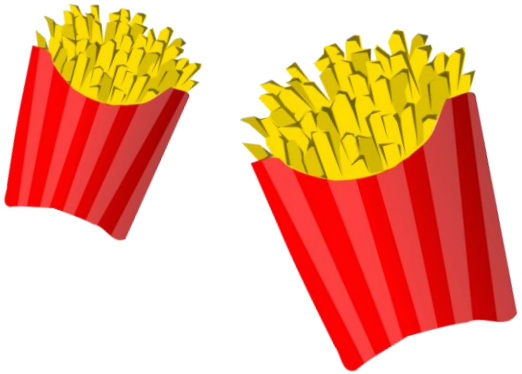
No

13) **You are planning a party. The number of cupcakes to cookies is 4 to 15. If there are 300 cookies, how many cupcakes are there?**

$\frac{4}{15} = \frac{c}{300}$ c=80 cupcakes

SCORE:_____/13





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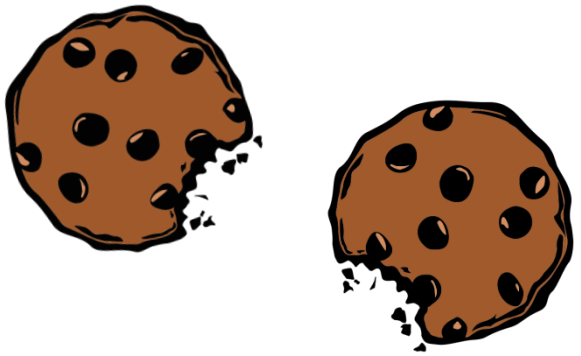

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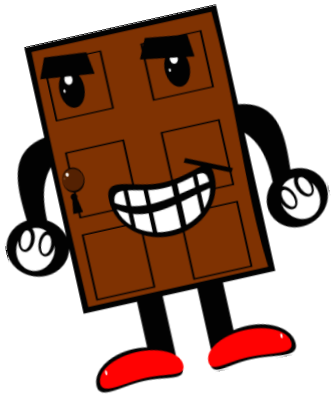

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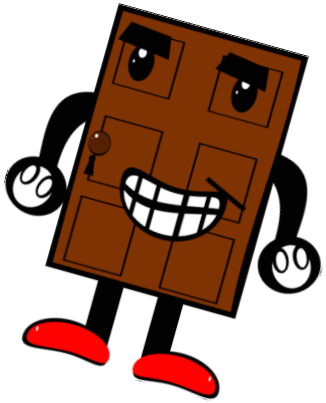

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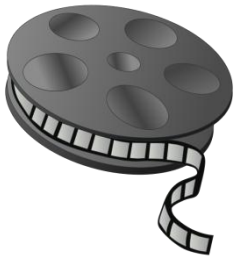

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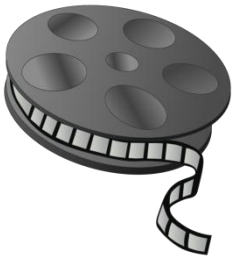

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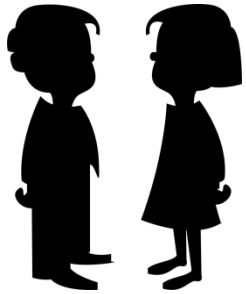

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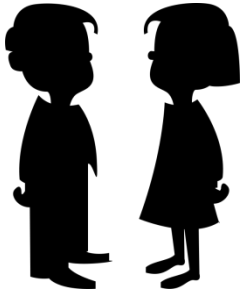

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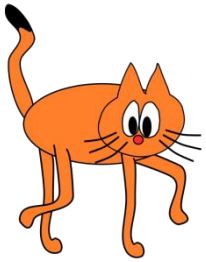

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