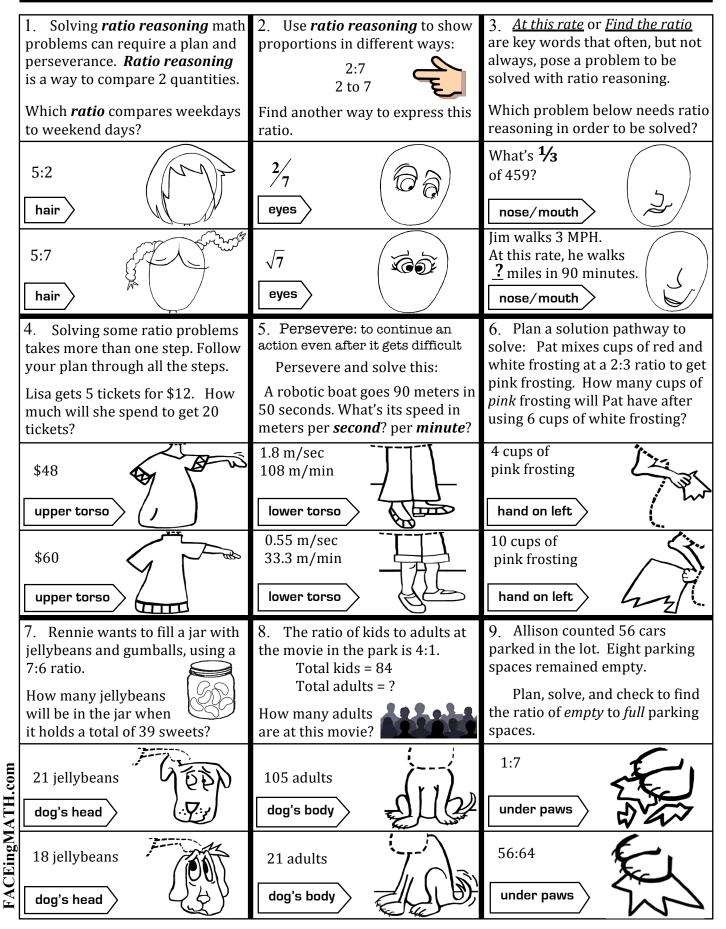
Lesson # 1: Persevere to solve problems. Plan, solve, and check using ratio reasoning.



Lesson 1

10. How can the ratio of white tiles to gray tiles be represented	11. The ratio of flour to bread-crumbs in the recipe is 2:3. The total of both ingredients is 30 tablespoons. How many tablespoons of each ingredient are used?	12. The ratio of tour guides to visitors is 1:15. If 75 visitors arrive to see the castle, how many guides are needed? How can this problem be represented mathematically?
3:1	12 tablespoons of flour 18 tablespoons of breadcrumbs hair/brows Color: numbe	$\frac{1}{15} = \frac{n}{75}$
6:1	14 tablespoons of flour 16 tablespoons of breadcrumbs	mouth Color: red $\frac{15}{1} = 75 + n$
eyes Color: gray	hair/brows Color: red	mouth Color: black
13. Gloria wraps 10 boxes of cookies to send to her relatives. The wrapping paper to ribbon ratio is 3':2.5' for each box. How much more wrapping paper than ribbon will she use?	14. Find an equivalent value for the ratio:9:5	15. Find two ratios equal to this one: 4:5 (can persevere and work it through.)
6 inches Shirt Colors: white & blue	1.08 pants Color: green	5:4 and 40:50 shoes Color: purple
5 feet Shirt Colors: red & yellow	$ \begin{array}{c} 1\frac{4}{5} \\ \hline \text{pants} \end{array} $ Color: red	16:20 and 28:35 shoes Color: red
16. Find this ratio reduced to it simplest decimal form. 300:120 I don't give up when it takes a bit of brain power!	75:45 45:27 Find an accurate description of the pair of ratios above.	18. The ratio of red to white beans in a bag is 4:1. What is the probability that a white bean will be picked from the bag?
2.5 all torn paper Color: green	These ratios are not equivalent. dog fur Color: gray	There is a 20% probability that a white bean will be picked. floor Color: brown
all torn paper Color: green $\frac{3}{12} = \frac{1}{4}$ all torn paper Color: blue	These ratios are equivalent. dog fur Color: blue	There is a 25% probability that a white bean will be picked. floor Color: pink