Session 1.2

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1. Put the following on a number line: 0.25, 7/10, 2/3, 1/8, 5/8, and 0.6
2. A relay race covers 1 1/2 miles, and each runner runs 1/4 mile. How many runners do you need?
3. A stretch of highway that is $12\frac{1}{4}$ miles long has a speed limit signs every 7/8 of a mile. How many signs does it have in total?
4. A turtle can walk 1/12 of a mile in an hour. The turtle is 5/6 of a mile away from the pond. How long does it take the turtle to reach the pond?
5. Carlos has 4/5 of a tank of fuel in his car. He uses 1/10 of a tank per day. How long does it take to run out of gas?
6. Suppose there is 8/9 of a chocolate bar left and 5 friends want to share it equally. How much chocolate bar does each get?
7. Four friends go to a meal and split the check for $52.44. How much does each one pay? Extra: if two friends split a dish, how should the cost be distributed?
8. Solve for x: $\frac{2}{4} = \frac{x}{8}$ and $\frac{3}{4} = \frac{x}{52}$
9. Simplify the following fractions: $\frac{14}{35}, \frac{24}{52}, \frac{18}{30}$
10. Calculate a 15% tip on a $24.80