Sample Lesson #3

- 1. Mrs. Thompson had 12 movie passes to give as prizes. She gave away 3 prizes this morning. Write and solve an inequality to show how many more passes she can give away. Create a number line and graph the solution. Explain your answer.
- 2. Find the values of *a*, *b*, and *c*.
- 3. Holly has 4 swimsuits, 2 hats, and 3 pairs of flippers. Find the number of outfit combinations she has.
- 4. A scuba diver at the surface of the water dove 10 meters to watch a school of fish, and then dove 15 meters more. Which expression describes his movement?
- 5. Polly and 7 others went out to dinner. The food bill was \$200, and they gave a 20% tip. Polly estimated that each person's fair share was about \$30. Is this reasonable? Explain.
- 6. A cross section is a face formed when you slice through a 3D object. For example, consider the piece of lumber shown in the box. If you were to slice through it vertically, the face formed by the cut would be a cross section of the original lumber. Write your own definition of cross section in the answer box.
- 7. A building block set cost \$16.00. The same set a week later sold for \$19.00. What was the percent of increase? Round to the nearest tenth.
- 8. The bottoms of 80 craft sticks are painted for a game. There are 20 each of red, yellow, blue, or green sticks in a container. 36 players randomly chose a stick and then put it back. The table shows which colors were chosen. Give the theoretical probability and relative frequency for each of the four colors.
- 9. Find the radius of a circle that has an area of 706.5 mm^2 .
- 10. Use long division to write the fraction $-\frac{4}{5}$ as a decimal.
- 11. A container of marbles has 1 red, 1 blue, and 4 black. What is the probability that Frank will choose a black marble if he reaches into the container without looking inside? Plot the probability on the number line.
- 12. The dot plots show the ages of members of two clubs in a community. Which of these is an inference that can be made by studying the data shown here?



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