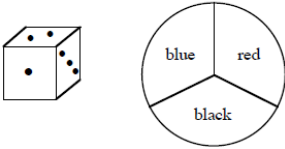


BOLDED – CALCULATOR OKAY

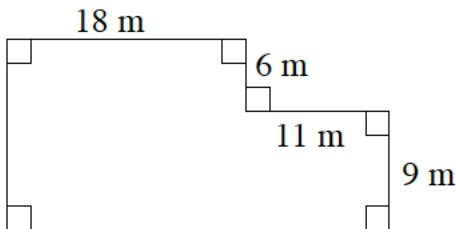
NOT BOLDED – DO NOT USE CALCULATOR

Tuesday

1. Mary is playing a game in which she rolls one die and spins a spinner. What is the probability she will get *both* the 3 *and* black?



2. Find the perimeter and area of Jacob's swimming pool shown in the diagram below. Be sure to show all of your work. (hint: see how you could divide the figure into easier sections to work with)



3. Mario was visiting the carnival when he noticed a few number relationships. He made them into brainteasers for you.

a. If three tenths of the visitors were adults and there were 100 visitors, how many visitors were adults?

b. Five eighths of the prizes at the Giant Spin were dolls. If there were 64 prizes, how many prizes were *not* dolls?

Wednesday

1. One die, numbered 1, 2, 3, 4, 5, and 6, is rolled. What is the probability of rolling *either* a 1 *or* a 6?

2. Here are the lengths (in inches) of snakes in a reptile display at the zoo: 10, 31, 36, 36, 38, 42, 47, 48, 49, and 52. Find the mean and median of the length.

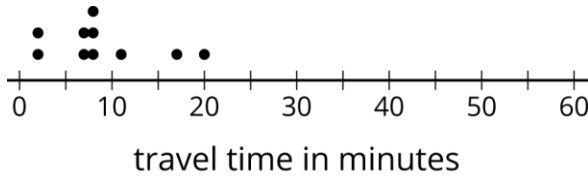
3. Maria claims that any fraction located between $\frac{1}{5}$ and $\frac{1}{7}$ on a number line must have a denominator of 6.

Enter a fraction that shows Maria's claim is incorrect.

4. What are the two requirements for a relationship to be proportional?

Thursday

1.



Ten sixth-grade students recorded the amounts of time each took to travel to school. The dot plot shows their travel times. The mean travel time for these students is approximately 9 minutes. The MAD is approximately 4.2 minutes.

Based on the mean and MAD, Jada believes that travel times between 5 and 13 minutes are common for this group. Do you agree? Explain your reasoning.

2. Identify the outlier in each set of data.

a) 70, 77, 75, 68, 98, 70, 72, 71

b) 14, 22, 17, 61, 20, 16, 15

c) 1376, 1645, 1783, 1455, 3754, 1790

d) 62, 65, 93, 51, 55, 14, 79, 85, 55, 72, 78, 83

3. The county-fair prize wheel has equally spaced sections with the following colors: one is golden, two are silver, three are green, four are blue, six are red, and nine are yellow.

a) What is the probability of landing on gold? Give your answer as a fraction and as a percent.

b) If the probability of landing on yellow is 36%, what is the probability of not landing on yellow?

c) If the wheel is spun 100 times, how many times would you expect to land on silver?

4. This table shows a proportional relationship between the grams of peanuts and raisins in a bag of trail mix.

Grams of Peanuts	Grams of Raisins
14	4
21	6
35	10

Enter the number of grams of peanuts in a bag for every 1 gram of raisins.

