Grade 7: Review of Past Outcomes

1. Create a Carroll diagram or a Venn diagram to sort the following numbers based on the divisibility rules for 3 and 5: 6, 8, 10, 15, 18, 25, 26, 36, 40, 45, 120. (**Go to page 12 in text for rules)**
2. 2.4x 3.7
3. The manager of a concert hall indicated that, in order to make a profit, the hall must be filled to at least 70% capacity or else the price of each ticket increased. The seating capacity is 1200, and advance ticket sales are at 912. Have enough tickets been sold so that ticket prices will remain low?
4. Does the fraction produces a repeating pattern?
5. John saved $50 during the fall. He owes $15 to his friend. He earned $20 mowing lawns. What is John’s net worth?
6. Model (- 2) – (- 4) using a number line.
7. Which is greater, or  ?
8. Which is greater, or Explain?
9. The diagram below shows a series of triangular supports for a bridge.

 Continue the pattern above for up to seven triangles.

1. Will the scales below balance or tilt, Explain?

(3 × 9) + 5

6 × 8

4 + 5 + 3

3 × 4

1. 5 + 4*m* when *m* = 4.2
2. Show 4p + 2 using algebra tiles or pictures
3. x + 8 = - 13
4. 2x = 16
5. The mean of a set of test scores is 80. One of the grades is erased from the report card, and the other four are 90, 95, 85, and 100. What is the missing score?
6. Ali’s school has a running track which is semi-circular at each end, as shown. How many times does she have to go around the track to run 2 km?



1. A parallelogram has a base of 5 and height of 8. What is the area? A triangle has the same dimensions. What is the area?