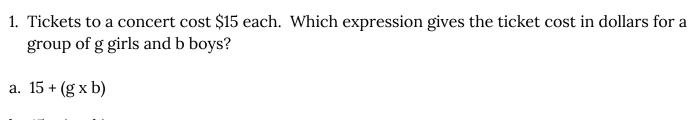# South Amboy Public Schools
Incoming 6th-Grade
Summer Mathematics Preparation

Welcome to South Amboy Middle High School! In preparation for your 6th-grade mathematics class, please complete the questions provided in this packet to review content that will assist you with being successful during the 2019 - 2020 school year. This packet should be completed and handed in by Monday, September, 9, 2019. We look forward to meeting you in September!

1. Tickets to a concert cost $15 each. Which expression gives the ticket cost in dollars for a group of g girls and b boys?

a. 15 + (g x b)

b. 15 x (g x b)

c. 15 + (g + b)

d. 15 x (g + b)

2. Choose the symbol that would make the following statement true:

$$0.004 \qquad 0.2$$

a.   >

b.   <

c.   =

3. Which set of numbers is ordered least to greatest?

a.   0.471, 0.42, 0.408, 0.4

b.   0.408, 0.42, 0.4, 0.471

c.   0.4, 0.42, 0.408, 0.471

d. 0.4, 0.408, 0.42, 0.471

4. Raphael weighs 128.75 pounds. When he is holds his baby sister they weigh a combined weight of 143.62 pounds. How much does his baby sister weigh?

a. 14.97 pounds

b. 14.87 pounds

c. 25.13 pounds

d. 15.97 pounds

5. What is the value of the expression 5 x (4 + 2) – 8?

a. 14

b. 22

c. 10

d. 1

6. There are 12 players on the hockey team. The players want to donate some new equipment to the hockey club. This equipment will cost $336, how much money do they each need contribute?
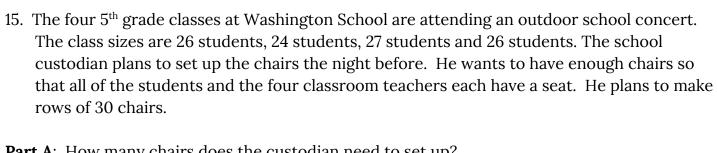
a. 12

b. 19

c. 28

d. 29

7. $4\frac{4}{5} - 2\frac{1}{2} =$

a. $1\frac{1}{2}$

b. $2\frac{1}{2}$

c. $2\frac{3}{1}$

d. $2\frac{3}{10}$

8. $3\frac{2}{3} \cdot 5 =$

a. $\frac{17}{3}$

b. $\frac{11}{15}$

c. $\frac{55}{3}$

d. $\frac{8}{3}$

9. Choose the algebraic expression for the phrase : **Thirty two increased by y**

a. $32 + y$

b. $y - 32$

c. $32 - y$

d. $32y$

10. Dylan has $326.42 in his savings account. He makes deposits of $50.35 and $22.80. What is the new balance in his account?

a. $73.15

b. $349.22

c. $376.77

d. $399.57

Short Constructed Response – Evaluate each question and show your work.

11. Rix has $347.03 in his savings account. He makes deposits of $53.42 and $32.50. What is the new balance in his account?

12. 8 basketballs weigh 4.96 kilograms. How many kg does one basketball weigh?

13. Round 356.452 to the nearest hundredth.

14. An office supply store needs to order 3,000 binders. If 14 binders fit in a box, how many boxes will they be shipped to the store in?

15. The four 5th grade classes at Washington School are attending an outdoor school concert. The class sizes are 26 students, 24 students, 27 students and 26 students. The school custodian plans to set up the chairs the night before. He wants to have enough chairs so that all of the students and the four classroom teachers each have a seat. He plans to make rows of 30 chairs.

Part A: How many chairs does the custodian need to set up?

Part B: What is the least number of rows of chairs that he should set up?

Part C: How many chairs will NOT be filled?