

## Cumulative Test Project Topics for Spring Semester 2019: Grade 6

Please check all future efforts against the following guidelines:

1. Has each of the topics listed on the Cumulative Test Project sheet been written in **red** on the loose leaf pages?
2. Has the student gone to the textbook, workbook, or supplementary worksheets to find each set of directions associated with those topics and written them in pencil on the loose leaf pages?
3. Has the student completed one original example for each set of directions? Does the example reflect the type of work found on the starred examples in the notebook, or has the student used some "very minimal" example that I would never use on a test?
4. Does each loose leaf sheet have the required heading?

Student's Legal Name Date: (e.g. January 28, 2019)

Saint Gabriel School Grade 6, 7, or 8

5. Is the assignment being done a little each night, or is your child rushing the assignment into the last few nights before it is due?
6. Please do not sign any assignment that is not neatly completed with all work properly spaced for easy reading! A parent's signature does not make an unacceptable assignment acceptable!!!

The following topics need to be mastered for the cumulative test:

1. Addition of Integers
2. Solve "real life" problem situations involving Addition of Integers
3. Subtraction of Integers.
4. Solve "real life" problem situation situations involving Subtraction of Integers
5. Multiplication of Integers
6. Solve "real life" problem situations involving Multiplication of Integers
7. Division of Integers
8. Solve "real life" problem situations involving Division of Integers
9. Solve addition and subtraction equations algebraically.
10. Solve "real life" problem situations by using addition and subtraction equations algebraically. Show all five steps!
11. Solve multiplication equations algebraically.

12. Solve "real life" problem situations by using multiplication equations algebraically. Show all five steps!
13. Solve division equations algebraically.
14. Solve "real life" problem situations by using division equations algebraically. Show all five steps!
15. Write and solve equations with rational numbers [e.g. fractions, decimals, and mixed numbers].
16. Graph inequalities on a number line, including inequalities that represent "real life" situations.
17. Solve inequalities algebraically, showing the solution set and multiple checks.
18. Solve "real life" problem situations that may be represented by one-step or two-step inequalities.
19. Solve Two-Step Equations algebraically.
20. Solve "real life" problem situations by using two-step equations algebraically. Show all five steps!
21. Understand dependent and independent variables.
22. Graph linear equations/functions by creating a function table.
23. Solve "real life" problem situations involving the graphs of linear functions using function tables.
24. Use patterns to write and solve equations.
25. Represent relationships between two variables by writing equations, making tables, and graphing.
26. Use a ratio to describe the relationship between two quantities.
27. Use multiplication and division to find equivalent ratios.
28. Compare ratios to solve problems.
29. Solve ratio problems by using tables and graphs to show equivalent ratios.
30. Solve problems involving rates.
31. Compare unit rates to solve problems.
32. Use unit rates to solve problems.
33. Use ratio reasoning to convert customary measurements.
34. Use unit rates to convert metric units.
35. Convert between customary and metric units given the conversion factors.
36. Represent and find the percent of a whole.
37. Write equivalent values as fractions, decimals, or percents.
38. Write percents that are greater than 100 or less than 1.
39. Estimate the percent of a number using equivalent fractions, rounding, or compatible numbers.
40. Solve problems involving percents.
41. Find the whole amount when given a part and the percent.
42. Find the area of a parallelogram or a rhombus.

43. Solve "real life" problem situations involving the area of a parallelogram or a rhombus .
44. Find the area of triangles including word problem situations.
45. Find the area of a trapezoid or a kite.
46. Solve "real life" problem situations involving the area of a trapezoid or a kite.
47. Find the area of polygons including word problem situations.
48. Represent solid figures using nets.
49. Draw a net of a prism and use it to find the prism's surface area.
50. Draw a net of a pyramid and use it to find the pyramid's surface area.
51. Find the volume of a rectangular prism with fractional edge lengths.
52. Identify and write statistical questions.
53. Identify the mean, median, mode, and range of a data set.
54. Make and interpret box plots.
55. Make and analyze frequency tables and histograms.
56. Use measures of variability to describe a data set.
57. Select and use appropriate statistical measures.
58. Summarize numerical data sets.

Be sure to include word problems that represent each topic in your Cumulative Test Project. Also, be certain to include the sets of directions from both the Pearson and Sadlier books. Students may also wish to review the "Fluency Practice" topics as they will certainly be included on the State Test.