

Cumulative Test Project Topics for Spring Semester 2019: Math 8

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. Construct a scatter plot and use it to understand the relationship between paired data.
2. Use a line to represent the relationship between paired data.
3. Make a prediction by using the equation of a line that closely fits a set of data.
4. Display and interpret relationships between paired categorical data.
5. Find the relative frequencies of two-way tables and interpret what they mean.
6. Find the number of solutions of a system of equations by inspecting the equations.
7. Find the solutions to a system of equations using graphs.
8. Solve systems of equations using substitution.
9. Solve systems of equations using elimination.
10. Translate two-dimensional figures.

11. Reflect two-dimensional figures.
12. Rotate two-dimensional figures.
13. Describe and perform a sequence of transformations.
14. Use a sequence of translations, reflections, and rotations to show that figures are congruent.
15. Dilate two-dimensional figures.
16. Use a sequence of transformations, including dilations to show that two figures are similar.
17. Identify and find the measures of angles formed by parallel lines and a transversal.
18. Find the interior and exterior measures of a triangle.
19. Use angle measures to determine whether two triangles are similar.
20. Use the Pythagorean Theorem to find unknown sides of a triangle.
21. Use the converse of the Pythagorean Theorem to identify right triangles.
22. Use the Pythagorean Theorem to solve problems.
23. Use the Pythagorean Theorem to find the distance between two points in a coordinate plane.
24. Find the surface area of cylinders, cones, and spheres.
25. Use what is known about finding the volumes of rectangular prisms to find the volume of a cylinder.
26. Find the volume of cones.
27. Find the volume of spheres and use it to solve problems.

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.