

The teacher will need to see all of your work. Check (x) off each one as you use it. Be sure to include the following:

- Pictures, charts, graphs, or t-tables that support your explanation
- A written explanation with detailed sentences
- The equation or number sentence
- The answer (Ask yourself: Is my answer reasonable? Why or why not?)
- The solution in more than one way or related to other situations

Teacher Use Only

Analytical Score:

Understanding N A P E

Strategy/Reasoning N A P E

Communication N A P E

Holistic Score N A P E

Name: _____ Grade: _____ Date: _____

Teacher: _____ School: _____

GEARS!

Look at the set of gears. Gear B has 12 teeth and Gear C has 20 teeth. Find the number of teeth that Gear A has to have so that when it rotates once, Gear B and Gear C have rotated some whole number of times.

Be sure to explain your reasoning clearly. Connect as much mathematics and use as much math language as you can.

