LCM –least common multiple Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Your work must be shown!*

*\*Don’t forget to underline key words.*

*\*Write an answer statement before you begin solving the problems.*

1. Joe jogs on the school track every 3 days. Meg jogs every 4 days. When will be the first time for them to jog on the same day? When will be the next time they jog together?

Answer Statements:

1. There are two Ferris wheels at the state fair. The children's Ferris wheel takes 8 minutes to rotate fully. The bigger Ferris wheel takes 12 minutes to rotate fully. Marcia went on the large Ferris wheel and her brother Joey went on the children's Ferris wheel. If they both start at the bottom, how many minutes will it take for both of them to meet at the bottom at the same time?

Answer Statements:

1. Sean has 8-inch pieces of toy train track and Ruth has 18-inch pieces of train track. How many of each piece would each child need to build tracks that are equal in length?

Answer Statements:

CHALLENGE:

1. Hamburger buns are sold in packages of 8. Hamburger patties are sold in packages of 6.

How many buns and patties would you need to buy so that there are the same number of buns and patties? How many packages of each would need to be bought? (Explain mathematically as well as with a drawing.)