Proportional or Not- II

Teacher Directions: Show the students a problem, set the timer for 30 seconds for the students to think silently, and then allow 30 seconds to discuss with their partner. At the end of the minute, have each pair vote in front of their chests by showing thumbs up for "yes, it is proportional", thumbs down for "no, it is not proportional" and a sideways thumb for "we're not sure". Make sure to discuss each scenario by selecting students to share their reasoning. Note: The students are NOT solving, rather, they are deciding if the data is proportional.

1. Rick types 70 words in 2 minutes. At that rate, how many words can he type in 10 minutes?

2. The ratio of giraffes to elephants in the zoo is 3:1. If there are 33 giraffes in the zoo, how many elephants are in the zoo?

3. Cereal is on sale today. The special says, "buy two, get one free". If 1 box of cereal costs $3.50, how much will 6 boxes cost?

4. Two people can complete a job in 4 hours. How long will it take for 4 people to complete the same job?

5. Bananas are on sale for 3 pounds for $2. At that price, how many pounds can you buy for $22?

6. Maria walks 2 laps in 5 minutes and then runs 2 laps in 3 minutes. If she continues to alternate walking and running at the same paces, how many laps will she complete in 16 minutes?

7. At a cupcake shop, they make 3 chocolate cupcakes for every 4 vanilla cupcakes. If they make 270 chocolate cupcakes, how many vanilla cupcakes will they make?

8. Lizette earns $10 in gas money for driving to babysit and then earns $8 for each hour she babysits the kids. How much money will she make for 5 hours of babysitting?

9. Xavier measured the length and width of a rectangle to be 11 cm and 7 cm, respectively. A rectangle that is similar to this rectangle has a width of 63 cm. How long is the rectangle?

10. Ming was planning a trip to Western Samoa. Before going, she did some research and found out that the exchange rate is 6 Tala for $2. How many Tala would she get if she exchanged $42?

11. When Linda was 10 years old, Max was 14. How old will Linda be when Max is 28?