- Click on the link https://www.geogebra.org/m/g2gec2vd#material/W5yfJVHg
- Play with the blue dividend and red divisor sliders.
- 1. After moving around the blue and red slider:
 - a. What did you notice?
 - b. What did you wonder about?

Move the blue slider for dividend to 3 and keep it there.

- 2. Move the red slider (divisor), come up with 4 division problems that make the quotient (answer in green) *larger* than the dividend of 3.
 - a. $3 \div \underline{} = \underline{}$ (something greater than 3)
 - b. 3 (something greater than 3)
 - c. 3 (something greater than 3)
 - d. 3 = (something greater than 3)
- 3. In order to get an answer that was greater than divisor, the dividend has to be
- 4. Move the red slider (divisor), come up with 4 division problems that make the quotient (answer in green) *smaller* than the dividend of 3.
 - a. $3 \div \underline{} = \underline{}$ (something smaller than 3)
 - b. 3 = _____ (something smaller than 3)
 - c. 3 = _____ (something smaller than 3)
 - d. 3 ____ = ___ (something smaller than 3)
- 5. In order to get an answer that was smaller than divisor, the dividend has to be:

Time for some mental math.

Using mental math, circle either "smaller than 1", "= 1", or "greater than 1" for the problems given.

- 6. 3.78 .02 smaller than 1 = to 1 greater than 1
- 7. 1.86 + 4.2 smaller than 1 = to 1 greater than 1
- 8. .002 + 1 smaller than 1 = to 1 greater than 1
- 9. .9 .900 smaller than 1 = to 1 greater than 1
- 10. 13 + 1.2689 smaller than 1 = to 1 greater than 1

Consider the answers provided, then make up your own division problems (do not use any from the worksheet) that would make the answer true.

- 12. ____ = to 1
- 13. _____ ____ less than 1
- 14. _____ less than 1
- 15. greater than 1
- 16. Your friend missed class today. How would you explain the big ideas of today's lesson? Your answer may include pictures.