COASTMETRO
ELEMENTARY MATH PROJECT

GRADE 6 MIXED REVIEW

1. How many thousands are in one million?

2. How many millions are in a billion?

3. Write two decimals that are between ½ and ¾.

4. How many hundredths are in a tenth?

5. Write 16% as a fraction in lowest terms.

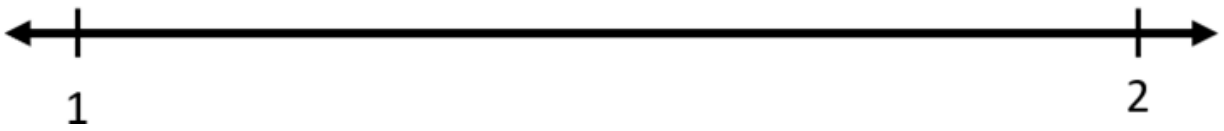
6. Place the following numbers in order from least to greatest:
0.2, 0.22, ⅞, ½, 1, 60%

7. How many fifths are in two wholes?

8. Write 8 hundredths as a fraction, decimal and percent.

9. Elsie was making oatmeal in the morning for her family. For two servings, the recipe calls for 1.5 cups of water and 1 cup of oats. How many cups of water and oats would she need for four servings?

10. Place 1.5, 5/4, 1.1 and 7/4 roughly where you think they belong on the number line below.



11. How many numbers are there between 0 and 1? How do you know?

12. Write 6:15 in lowest terms. Is it possible to write this ratio as a fraction without knowing whether it is part-to-part or part-to-whole? Explain.

13. Will 0.7 x 1.6 give a product that is greater than 1.6 or less than 1.6? Explain.

14. Is 6/5 greater than 1 or less than 1? How do you know?

15. How many thirds are in 5 ⅓? How do you know? Write 5 ⅓ as an improper fraction.

16. Alex was so excited to finally get the new book he wanted, that he read 50 pages on the first day! Every day after that, he read 10 pages. Write a pattern rule to show this. Use a table of values to figure out how many pages Alex would have read after a week. If the book has 278 pages, how long would it take him to finish it?

17. Create 3 different shapes that have the same perimeter length. What is the area of each shape? Measure and label all of the sides and angles.

18. Ben wants to build a fence around an area of approximately $100m^2$.
a. Draw some possible shapes for the fence and include the length of each side.
b. Ben has the choice of using 3m boards or 4m boards for the fence. 3m boards cost $7.49 each and 4m boards cost $8.99 each. What is the least expensive way that Ben can build the fence?

19. Soriah needs to roll a number greater than 16 on a 20-sided dice, so her character won't take damage.
a. What is the theoretical probability that she will roll what she needs?
b. Show the probability as a fraction, decimal and percent. Is it possible to show it as a ratio?

20. Which tin of candy would you rather buy? Use pictures, numbers and words to explain your thinking.