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Review of rational numbers, compare and order, and multiple representations

1. Given the following sequence 11, 19, 27, 35, 43, … make a table and the equation. Also solve for when n = 15.
2. Given the expression 6n – 4, what would be the first 5 terms of the sequence?
3. Mr. Clark is trying to figure out his gas bill which he gets charged a $5 fee for getting his meter read. He knows the equation for his plan is y = .25*x* + 5 where *x* represents the number of cubic feet of gas he uses, and y represents the total cost of his bill.
	1. Is this equation proportional or non-proportional? Explain why?
	2. What would he have to pay for his bill, if he used 50 cubic feet of gas?
4. A carpenter has to order the following pieces of wood from least to greatest. What would the order of the following numbers be 2 $\frac{2}{3}$ cm, 2.73 cm , 2 $\frac{3}{4}$ cm, 2 $\frac{5}{8}$ cm.
5. A baker has an old recipe that calls for 2 $\frac{1}{2}$ cups of flour for a dozen cookies. How much flour would the baker need if they want to make 6 dozen cookies?
6. Chepi had a spool with 14 yards of wire. She used 5 yards of the wire for a craft project. How much wire was left on the spool?
7. Church needs to impress his girlfriend by buying flowers, but Church only has $35. If Church buys four red roses for $3.35, two yellow roses for $2.45, and six pink roses for $2.50, how much change will Church receive?
8. Chuck ran 4 days last week. He ran the same distance every day. If he ran a total of 14 $\frac{2}{3}$ miles last week, how far did he run each day?
9. Griff worked on a project for 3 $\frac{1}{5}$ hours for two days, and then worked another day for 2 hours. How much did Griff work on the project?
10. Given the following set of numbers 310%, 3 $\frac{1}{8}$, 3.155, 3 $\frac{1}{9}$ , what is the order of the numbers from least to greatest?
11. A person wants to know how much weight to lose per week. The goal of this person is to lose 25 lbs in 6 weeks. How much weight can a person lose per week?
12. The highest recorded temperature for March 1 in Mathville was 87° F. The lowest recorded temperature was -17° F. What is the difference between the two temperatures?
13. A botanist has three trees with the following heights 6feet, 5 feet, and 7feet. How tall are the trees all together?
14. The area of a rectangle can be found by using the formula *A = lw*. What is the area of the rectangle shown below?

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