



- *20 questions
- *NO Calculators
- *Show all work/steps- use separate paper
- *Recommend time frame 30min

Concept of Real Numbers

1. True or False? The negative fraction $-3/4$ is considered a Real Number.
2. Define "Integer" in your own words.
3. Write a Real Number that would describe the depth of a submarine at 110 feet.

Real Number Operations- NO CALCULATORS

4. $-4 + -12$
5. $17 + -29 - 30$
6. $-5 - (-10)$
7. $-3(-1) + 15(-3)$
8. $(-18 \div 9) + (-50 \div -10)$
9. $2/3 + -4/5$
10. $(-5)^2$
11. -5^2

Simplifying Variable Expressions

12. Determine if the terms $14xy$ and $2xy^2$ are "like terms." (explain)
13. Simplify: $4x - 8x + 10$
14. Simplify: $3xh + 9xh^2 - 9xh + 2x^2h$
15. Simplify: $abc + 4abc^2 + 6ab^2c - 12a^2bc$
16. Simplify: $3(x + 7)$
17. Simplify: $-4(y - 6) - 5(y + 3)$
18. Simplify: $3x + 2(x - 4) + 6(x - \frac{1}{3})$
19. Simplify: $-1/4(\frac{2}{5} + 6x)$
20. Use the Distributive Property to write the problem $20x + 4$ another way. (hint: factor)