Name _____ Date _____ Hour _____

7th Grade - 1st Term Assessment - Study Guide

The Term 1 Assessment will cover the following concepts:

- 1 - Integer Operations
- 2 - Order of Operations
- 3 - Rational Numbers
- 4 - Adding and Subtracting Rational Numbers
- 5 - Multiplying and Dividing Rational Numbers

1.   When adding two integers, if the signs are the same, you _____.

2.   When adding two integers, if the signs are different, you _____.

3.   When subtracting two integers, it is often easier to change the problem into an

_____ problem, by _____.

4.   When multiplying/dividing two integers, if both of the signs are the same, the result will

be _____.

5.   When multiplying/dividing two integers, if the signs are different, the result will be

_____.

6. $6 + (-2) =$

7. $-4 + -7 =$

8. $3 - 10 =$

9. $-12 - 10 =$

10. $-8 + 4 =$

11. $-3 * -6 =$

12. $-9 * -9 =$

13. $20 - (-10) =$

14. $-25 \div 5 =$

15. $10 - 8 =$

16. $-4 - (-5) =$

17. $(-6)(-7) =$

18. $49 \div -7 =$
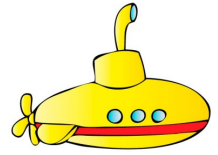
19. $8 - (-5) =$

20. $-5 + (-13) =$

21. $-4 * -8 =$

22. A submarine is 200 feet below sea level. The submarine descends 100 feet. What is the submarine's new depth? Explain your thinking.

23. Tom is out on an adventurous hike. He is 82 meters below sea level. Tom climbs 22 meters. Express Tom's height as an integer, comparing it to sea level. Explain your thinking.

24. The following table shows the amount of strokes, above / below par, in half a game of golf. What is the golfer's score?

Hole	1	2	3	4	5	6	7	8	9
Score	0	-1	2	-2	0	1	-1	0	-1

25. When adding two integers, explain how you know the sign of the resulting sum.

26. $\dfrac{6}{7} - \dfrac{1}{3} =$

31. $-\dfrac{4}{6} * \dfrac{15}{22} =$

27. $\dfrac{2}{3} + \dfrac{4}{5} =$

32. $-\dfrac{5}{8} \div -\dfrac{20}{56} =$

28. $-\dfrac{1}{4} + \dfrac{2}{5} =$

33. $\dfrac{16}{35} * \dfrac{21}{24} =$

29. $-1\dfrac{1}{3} - \dfrac{5}{9} =$

34. $-1\dfrac{2}{3} \div -2\dfrac{1}{4} =$

30. $3\dfrac{2}{7} + 2\dfrac{2}{3} =$

35. $3\dfrac{1}{4} \times 2\dfrac{2}{3} =$

36. Sarah has a piece of uber-licorice. It is 8 feet long! Sarah decides to share her licorice with some friends. She gives Adam $1\frac{1}{2}$ feet, Michelle $2\frac{3}{4}$ feet and Kim $1\frac{5}{6}$ feet. How much licorice does Sarah have left over for herself?

37. A picture frame is $2\frac{3}{4}$ meters by $3\frac{1}{9}$ meters. What is the perimeter of the picture frame?

38. Sam is making cookies. After checking the flour jar, Sam sees that there is $12\frac{2}{3}$ cups of flour left. The recipe that Sam is using calls for $2\frac{1}{4}$ cups for each batch of cookies. How many batches of cookies does Sam have enough flour for?