

**Unit 1
Review****Concepts 1 - 5**

Concept 1 - Integer Operations: Simplify the Expression

1. $-14 + 9$

2. $-5 - 6$

3. $-5(-8)$

4. $36 \div (-6)$

Concept 2 - Order of Operations: Simplify the Expression if $a = -3$, $b = 4$, and $c = 12$

5. $a + c \div b - a$

6. $b^2 + a^2 - c$

Concept 3 – Rational Numbers7. Convert into a mixed number -4.26 8. Convert into a decimal: $\frac{3}{8}$

Concept 4 – Adding & Subtracting Rational Numbers

9. $4\frac{2}{5} - \left(-6\frac{1}{2}\right)$

10. $3\frac{1}{3} - 4\frac{5}{6}$

11. $-9.24 + 2.89$

12. $-13.6 - 2.754$

Concept 5 – Multiplying & Dividing Rational Numbers

13. $\left(-\frac{2}{5}\right)\left(-1\frac{1}{4}\right)$

14. $-4\frac{2}{3} \div 2\frac{1}{6}$

15. $0.15 \times (-0.6)$

16. $-4.2 \div -12$

Application – Are you really ready?!?

17. 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 |

18. Sarah has a jumbo piece of 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?

19. How many $\frac{2}{3}$ -ounce packages of peanuts can be made with 8 ounces of peanuts?

20. Find the area of the rectangle (Area = Length x Width):

