



SCHOOL OF THE WEST

Algebra 1

Module 1 – Final

Exam

Negative Numbers

1) $-- 4 =$

2) $----- 3 =$

3) $-4 + 5 =$

4) $-2 + - 1 =$

5) $7-- 7 =$

6) $-3-- 4 =$

7) $--- 5 =$

8) $----- 16 =$

9) $3-- 5 =$

10) $-2 - 2 =$

11) $9 - + 4 =$

12) $8 - 9 =$

13) $7 \times -5 =$

14) $-8 \times -7 =$

15) $3 \times -2 =$

16) $-2 \times -2 =$

17) $5 \times -9 =$

18) $-5 \times -2 =$

Commutative Property

19) $5 \times 99 \times 2 =$

20) $4 \times 2 \times 4 \times 5 =$

21) $-2 \times 8 \times -5 \times 9 =$

22) $5 \times -2 \times 2 \times -5 =$

Associative Property

23) Add every number from 1 to 10,000

Distributive Property

Expand:

24) $2(4 + 8) =$

25) $2(4 - 8) =$

26) $A(B + C + D) =$

27) $3(4 + A - 1) =$

Factor:

28) $8A + 8B =$

29) $3G + 6H =$

30) $4D - 8K =$

31) $-7L - 49M =$

Identity Property

$$32) \frac{2}{X} + \frac{2}{Y} =$$

$$33) \frac{4}{A} - \frac{7}{B} =$$

$$34) \frac{1}{3} - \frac{4}{X} =$$

$$35) \frac{C}{2} - \frac{3}{D} =$$

Inverse Property

$$36) 8\left(\frac{T}{4}\right)(3) \frac{8}{T} =$$

$$37) \frac{1}{2} \left(\frac{4}{T}\right)(9) \left(\frac{T}{4}\right)(8) =$$

Power Laws

$$38) \frac{M^5}{M^2} =$$

$$39) \frac{N^2}{N^{-2}} =$$

$$40) \frac{U^6}{U^{-6}} =$$

$$41) Z^3 Z^1 Z^{-2} Z^5 =$$

$$42) \frac{Y^5 Y^2}{Y^{-4} Y^4} =$$

$$43) \left(\frac{N^4}{N^5}\right)^{-3} =$$

$$44) \frac{512}{8} =$$

$$45) \left(\frac{XAX^4}{A^2 X^3}\right)^{-2} =$$

$$46) (C^2 D^3)^{-3} =$$

Order of Operations (PEMDAS)

$$47) -(5 + -2) =$$

$$48) -(-6 - 6) =$$

$$49) -(-5)(-4) =$$

$$50) -3(4) =$$

$$51) -6(-4)(3)(4) =$$

$$52) -5^2 =$$

$$53) \frac{1}{3}(4 + 2)^2 =$$

$$54) 4 + -3(-9 - 2) \times 2 + 3 - 12 =$$

$$55) \frac{1}{3}[(X - 4) - X - 3] =$$

$$56) \frac{1}{5}\left[\frac{1}{3}(-4 + 2)^2\right] - 5 =$$