

Name: _____

Period: _____

SHOW ALL WORK FOR CREDIT! FOR ANY PROBLEM INVOLVING SUBTRACTION, YOU MUST USE THE RULE! YOU MAY ONLY ADD/MULTIPLY TWO INTEGERS AT A TIME! BOX YOUR ANSWERS!

UNIT 1 PRACTICE TEST

PLEASE SOLVE THE FOLLOWING PROBLEMS USING THE ORDER OF OPERATIONS.

1) $2 [5(11 - 3)] - 16$

2) $75 \div (7 + 8) - 3$

3) $\frac{45 - 18}{9 \div 3}$

4) $2 \cdot 6 - 8$

5) $10 [9 (2 + 4) - 6 \cdot 2]$

6) $56 \div (7 \cdot 4) \times 6$

7) $\frac{3+19}{11^0}$

8) $(3 \cdot 4) + 4^2 - 8 \cdot 2$

MATCH EACH PROPERTY NAME WITH ITS EXAMPLE

9) _____ Commutative Property of Addition

a) $x \cdot \frac{1}{x} = x$

10) _____ Commutative Property of Multiplication

b) $5 + (-5) = 0$

11) _____ Associative Property of Addition

c) $x \cdot 1 = x$

12) _____ Associative Property of Multiplication

d) $x \cdot 0 = 0$

13) _____ Identity Property of Addition

e) $89 + (11 + 12) = (89 + 11) + 12$

14) _____ Identity Property of Multiplication

f) $4 + 0 = 4$

15) _____ Inverse Property of Addition

g) $3 \cdot (4 + 5) = (3 \cdot 4) + (3 \cdot 5)$

16) _____ Inverse Property of Multiplication

h) $5 + 26 + 15 = 5 + 15 + 26$

17) _____ Multiplicative Property of Zero

i) $4 \cdot 7 \cdot 25 = 4 \cdot 25 \cdot 7$

18) _____ Distributive Property

j) $3 \cdot (4 \cdot 5) = (3 \cdot 4) \cdot 5$

16.) $|-100 \div 25|$

17.) $-|-16 + (-22)|$

18.) $-|24 \div (-8)|$

For #'s 19 – 24, evaluate each expression if $a = -2$, $b = -12$, and $c = 4$.

19.) $|c| - |a| + |b|$

20.) $|b \div c| - ac$

21.) $|a| \times |c| - 16$

22.) $b + |c \div a|$

23.) $|a| + |b| + |c|$

24.) $|a| - |c| - |b|$

For #'s 25 – 36, find the sum or difference.

25.) $-9 + 7 + (-10)$

26.) $-18 - (-12)$

27.) $9 + (-6) + (-17)$

28.) $13 - 25$

29.) $-84 - (-65)$

30.) $-14 + (-15)$

31.) $-17 + 24$

32.) $-12 - (-25)$

33.) $12 + (-20) + 16$

34.) $-6 - 9 - (-7)$

35.) $11 + (-22) + (-33)$

36.) $-66 - 13$

37.) Tom owns a small business called JONES'S IDEAS. There was a loss of eight dollars on Monday, and a profit of five dollars on Tuesday. On Wednesday there was a loss of six dollars, and a profit of ten dollars on Thursday. Find the total profit or loss for the four days.

38.) Tom owns a small business called JONES'S IDEAS. There was a loss of thirteen dollars on Monday, and a profit of eight dollars on Tuesday. On Wednesday there was a loss of twenty-one dollars, and a profit of a dollar on Thursday. Find the total profit or loss for the four days.

For #'s 39 – 50, find the product or quotient.

39.) $-5 \times (-4)$

40.) $351 \div (-3)$

41.) $-5 \times (-3) \times 4$

42.) $\frac{-81}{-9}$

43.) $-9 \cdot 3 \cdot 2$

44.) $80 \div (-5)$

45.) $18(-3)(-6)$

46.) $\frac{-84}{6}$

47.) $-5 \cdot (-6) \cdot (-10)$

48.) $42 \div 7$

49.) $-6 \times (-2) \times 12$

50.) $\frac{-105}{-15}$

For #'s 51 – 56, evaluate each expression if $a = -5$, $b = -4$, and $c = -9$.

51.) $2a + 3b$

52.) $b - 7c$

53.) $-4c - 6a$

54.) $a - 4b + 2c$

55.) $-2a + -5b - 8c$

56.) $a - b + 3c$

For #'s 57 – 62, evaluate each expression if $a = -6$, $b = -2$, and $c = -4$.

57.) $(a \div b) + c$

58.) $\frac{abc}{bc}$

59.) $ab \div c$

60.) $\frac{5a}{a + c}$

61.) $-8a \div (bc)$

62.) $(a + b) \div c$

63.) The temperature at noon was 3°C . If the temperature rose 2°C per hour, what will the temperature be at 6 p.m.?

64.) The temperature at 10 a.m. was 14°C . If the temperature dropped 5°C per hour, what will the temperature be at 4 p.m.?

65.) A pot of boiling water (100°C) is allowed to cool. The temperature of the water drops 5°C each minute. What will the temperature be after nine minutes?

66.) A pot of boiling water (100°C) is allowed to cool. The temperature of the water drops 9°C each minute. What will the temperature be after twelve minutes?

For #'s 67 – 68, use the following information.

At the 2004 LPGA Championship, Michelle Wie scored 72, 70, and 77.

67.) What was her total score?

68.) What was her average score?