Operations with Polynomials

Chapter 1B Practice Assignments
(Concepts 6-10)

Intermediate Algebra

Name: _____ HR: ____

Concept 6: Solve the word problems using basic operations of addition, subtraction, multiplication, and division.

81. Following examples 1-14 on your SSS (Concept 6), write 8 of your own Basic Operations Word Problems and solve them. You must have **two** problems using each operation.

Addtion:

1)

2)

Subtraction:

1)

2)

Multiplication:

1)

2)

Division:

1)

2)

Concept 7: Evaluate each expression.

82. $(-1-2)\cdot -3$

83. $-5\div -1\cdot -1$

84. $-2\cdot -3\cdot 5$

85. $6\cdot -15\div 3$

86. $(-1--3)\cdot -2\cdot -6$

87. $(6-3-2)\div -1$

88. $6\div -3(-4--1)$

89. $(4+1)\div(-5\cdot -1)$

90. $(9\cdot 2)\div(3-6)$

91. $4\div(-1--3)^2$

92. $-18\div 3-(-1+6)$

93. $2-5\cdot 5\cdot -2$

Concept 8: Evaluate each using the values given.

94. $p^2 + m;\ \ use\ m = 1\ and\ p = 3$

95. $z + x - z;\ \ use\ x = 3\ and\ z = 5$

96. $z^2 + y;\ \ use\ y = 3\ and\ z = 6$

97. $2yz;\ \ use\ y = 5\ and\ z = 6$

98. $z^3 - y^2;\ \ use\ y = 2\ and\ z = 4$

99. $4 - q + p + r;\ \ use\ p = 6, q = 1, and\ r = 3$

100. $(c^2 - b) \div 4;\ \ use\ b = 4\ and\ c = 6$

101. $(6 - k)^2 + j;\ \ use\ j = 4\ and\ k = 1$

Concept 9: Distribute to simplify each expression.

102. $-7(x-9)$ 103. $-7(1-5r)$ 104. $9(6n-7)$ 105. $-3(-7z-8)$

106. $-8(3b-8)$ 107. $-7(-3-8x)$ 108. $-2(n-8)$ 109. $-9(1-4a)$

Concept 10 PART 1: Simplify each expression by combining like terms.

110. $5x-6x$ 111. $-9k+5k$ 112. $4n+2n$ 113. $x-6+2x-1$

114. $9-3m+7m$ 115. $3p+2p$ 116. $1-9x+4+7x$ 117. $9n-7-5$

Concept 10 PART 2: Distribute and then combine like terms.

118. $7-9(-1+4x)$ 119. $8(9+4p)-6$ 120. $-4(2n+4)-n$

121. $-10m+3(1-2n)$ 122. $-3(x+1)-8(x-8)$ 123. $7(1-4a)+7(4+5a)$

124. $2(-4x-2)-8(1-3x)$ 125. $10(5+9k)-10(k+5)$

CHAPTER 1B PRACTICE TEST

Concept 6. Solve the word problems using basic operations of addition, subtraction, multiplication, and division.

31. Following examples 1-14 on your SSS (Concept 6), write 4 of your own Basic Operation Word Problems and solve them. You must write one for each operation.

Concept 7. Evaluate each expression.

32. $6 + 1 - -6$

33. $2 \div (3 - -2 \cdot -2)$

34. $(-6 + 2) \cdot 2 \cdot -1$

35. $1 + (9 - 3) \div 2$

Concept 8. Evaluate each using the values given.

36. $y - (z - z);\ \ use\ y = 6\ and\ z = 1$

37. $z - x \div 3;\ \ use\ x = 3\ and\ z = 4$

38. $k - j \div 2;\ \ use\ j = 2\ and\ k = 4$

39. $3(x^2 + y);\ \ use\ x = 2\ and\ y = 1$

Concept 9. Distribute to simplify each expression.

40. $-7(8 - 9x)$

41. $8(6v + 1)$

Concept 10 PART 1. Simplify each expression by combining like terms.

42. $1 - a + 8 + 2a$

43. $2 - 4a + 2 - 4a$

Concept 10 PART 2. Distribute and then combine like terms.

44. $-5(7x - 8) - 6$

45. $3(8 - 3n) - 3(7 - n)$