EKAdemy

Chapter 1: Numbers
MM: 20
Time Allowed: 60 minutes.

1. The sum of two integers is 84. If one of the integers is 44, determine the other. [2]
2. Simplify: [2]
   a. $(-145) + 97 + (-365) + (-71) + 8$
   b. $25 + [14 - 18 + \{12 \ of \ 5 - (16 \div 4 \times 3 - 2)\}]$
3. Calculate: $1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + \cdots + 29 - 30$. [2]
4. Find the value of: [2]
   a. $7 \times |-15| - |-9| \times 8$
   b. $9 \times (-16) + (-17) \times (-16)$
5. Fill in the blanks: [4]
   a. The largest negative integer is …………………
   b. $(-1)(-1)(-1)(-1)(-1) = $ ……………………
   c. $(-3)(-4)(12)(-1) = $ ………………
   d. The smallest positive integer is ………………
6. Subtract the sum of -1250 and 1138 from the sum of 1136 and -1272. [2]
7. If Δ is an operator on integers such that for integers a and b, $a\Delta b = a - b - (-5)$. Find the value of $(-7)\Delta 3$. [2]
8. A shopkeeper brought 12 dozen eggs out of which 2 dozen eggs are sold and 9 eggs are damaged. the damaged eggs are removed and replaced by 8 eggs. Find the remaining number of eggs with the shopkeeper. [2]
9. A basket contains 120 fruits from which 15 are sold and 42 are spoiled. After removing the spoiled fruits, 36 new fruits are placed in the basket. Find the final number of fruits in the basket. [2]

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