

**A.A.6: Modeling Equations 2: Analyze and solve verbal problems whose solution requires solving a linear equation in one variable or linear inequality in one variable**

- 1 Find three consecutive numbers whose sum is 9 greater than twice the largest number.
  
- 2 What number is that which being multiplied by 7 gives a product as much greater as the number itself is less than 20?
  
- 3 What number is that, the treble of which, increased by 12, shall as much exceed 54 as that treble is less than 144?
  
- 4 Find the number such that if 16 be subtracted from it,  $\frac{1}{7}$  of the remainder will be equal to  $\frac{1}{9}$  of the number.
  
- 5 A person expends \$240 in the purchase of wheat. If he had paid 20 cents a bushel less he could have obtained 100 bushels more for the same money. How many bushels did he buy?

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**Answer Section**

1 ANS:  
10, 11, 12

PTS: 12 REF: 010606al

2 ANS:  
5

PTS: 2 REF: 019008al

3 ANS:  
31

PTS: 2 REF: 019107al

4 ANS:  
72

PTS: 12 REF: 010504al

5 ANS:  
120,000

PTS: 20 REF: 019714al