Name: _____ Date: Sept. 19

Alg. H – Period: _____ (1st Qrtr) Ms. Nhotsoubanh

Hw #12: <u>More Mixed</u> <u>Review Word Problems</u>

Directions: Please show work in your notebook.

1.) The sum of three numbers is 61. The second number is 5 times the first, while the third is 2 less than the first. Find the numbers.

Equation: _____

2.) Find three consecutive odd integers such that twice the smallest is 3 more than the greatest integer.

Equation: _____

3.) Arthur has $3.10 consisting of quarters, dimes, and nickels. He has twice as many quarters as dimes and 3 more dimes than nickels. Find the number of each kind of coin.

Equation: _____

4.) The perimeter of a rectangular parking lot is 146 meters. Find the dimensions of the lot if the length is 7 meters less than 4 times the width.

Equation: _____

5.) The larger of two numbers is 1 less than 8 times the smaller. Their sum is 179. Find the numbers.

Equation: _____

6.) The length of a rectangle is 3 times the width. If the length is decreased by 4 cm and the width is increased by 1 cm, the perimeter will be 66 cm. Find the dimensions of the original rectangle.

Equation: _____

7.) A vending machine that takes only dimes and quarters contains 30 coins, with a total value of $4.20. How many of each coin are there?

Equation: _____

8.) Angela has $1.30 consisting of nickels, dimes, and quarters in a jar. There are 4 more dimes than quarters and twice as many nickels as quarters. How many of each coin are in the jar?

Equation: _____

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Answers: 1.) 9, 45, 7 2.) 7, 9, 11 3.) 2 nickels, 5 dimes, 10 quarters

4.) 16m & 57m 5.) 20 & 159 6.) 9cm & 27cm

7.) 22 dimes & 8 quarters 8.) 4 nickels, 6 dimes, 2 quarters

9.) Anna is 3 times as old as Ashton. In four years, Anna will be twice as old as he will be. How old is each now?

Answer: _____

10.) Two planes left at the same time from two airports which are 4,500 miles apart and flew toward each other. In 5 hours, they passed each other. The rate of the fast plane was twice the rate of the slow plane. Find the rate of each plane.

Answer: _____

11.) Megan is 14 years younger than Glen. Ten years ago, Thomas was 3 times as old as Megan was then. How old is each now?

Answer: _____

12.) Madison started from home on a trip, planning to average 48 miles per hour. How fast must her brother Daniel plan to travel in order to overtake her in 3 hours if Daniel started 30 minutes after his sister?

Answer: _____

13.) Shaun and Juliana started from the same point at the same time. They traveled in opposite directions on their bicycles. Shaun traveled at the rate of 9 miles per hour, and Juliana traveled at 11 miles per hour. After how many hours were they 60 miles apart?

Answer: _____

14.) The sum of Gionnah and her father's is 50 years. Eight years from now, Gionnah's Father will be twice as old as Gionnah will be then. Find the present age of each.

Answer: _____

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Answers: 9.) 12yrs & 4yrs; 10.) 600mph & 300mph; 11.) 31 yrs & 17 yrs;

12.) 57.6 mph; 13.) 3 hrs; 14.) 14 yrs & 36 yrs