

AMI DAY 2 Name: _____ Date: _____

Directions: Do Each problem and show all work.

1. Alfred and Rani both picked different two-digit numbers. If you multiply Alfred's number by 5 and double Rani's number, the sum is 300. If you double Alfred's number and multiply Rani's number by 3, the sum of the two numbers is 252. What is the sum of their two numbers?
 - a. 96
 - b. 112
 - c. 128
 - d. 144
 - e. 150

2. This semester, Gerry scored an average of 93 on his five history exams. He got the same score on his first two exams, and then he got a 94, an 85, and a 90 on the remaining exams. What score did he receive on his first two exams?
 - a. 95
 - b. 96
 - c. 97
 - d. 98
 - e. 99

3. The noncommon rays of 2 adjacent angles form a straight angle. The measure of one angle is 4 times the measure of the other angle. What is the measure of the smaller angle?
 - a. 36°
 - b. 45°
 - c. 90°
 - d. 135°
 - e. 144°

4. If $pq + 12 = 3p + pr$ and $q-r = 7$, what is the value of p ?
 - a. -3
 - b. -4
 - c. $\frac{1}{3}$
 - d. $\frac{3}{5}$
 - e. $-\frac{6}{5}$

5. On his first day working out, Anthony did 30 push-ups. On each successive day, he did exactly 3 more push-ups than on the previous day. After completing push-ups on the 30th day, how many total push-ups had Anthony completed throughout the 30 days?
 - a. Fewer than 500
 - b. Between 500 and 1000
 - c. Between 1000 and 1500
 - d. Between 1500 and 2000
 - e. More than 2000