

Name _____ Date: _____ Period: _____

Advanced Algebra II Honors: PITFALLS IN PROBLEM SOLVING!!

Solve the following problems. Show all work. Define your variables. Remember this is **PITFALLS** in problem solving which means you may not get an answer you expect.

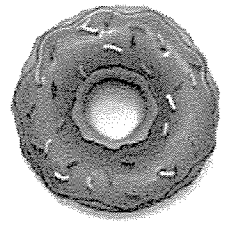
1. The round-trip fare from Beachview to Warwick's Island is \$39 for adults, \$19 for children 2 through 12, and \$5 for infants under 2. On Sunday there were 49 passengers who paid a total fare of \$1475. If there were twice as many adult passengers as children, how many infants were there?

2. A total of \$458 was collected for admission from 132 people who attended a show. If adults paid \$4.00 each and children paid \$2.50 each, how many children attended the show?



3. Find three consecutive even integers so that the second times the third is 13 more than 10 times the first.

4. Two cars left Tim Horton's Doughnut Shop in Brockville, Ontario and traveled in opposite directions. The faster of the two cars traveled 80 km/hr. The slower car traveled at 70 km/h. After how many hours were they 375 km apart?



5. Mrs. Barry is 20 years older than Mrs. Cook. Sixteen years ago, Mrs. Barry was 3 times as old as Mrs. Cook was then. Find their present ages.

Answers:

1. 4 infants

2. 46 children (not possible)

3. $\{-1, 5\}$ not even! (not possible)

4. ²⁶ 2 hours

5. Mrs. Cook – 26

Mrs. Barry – 46

