MULTIPLYING WHEN SUM OF ONES' DIGITS IS TEN
AND TENS DIGITS ARE EQUAL

Problem: | 85 X 85 = ? |

Method: 1.   Multiply the ones' digits to
               get the tens' and ones' digits
               in the answer.

          2.   Add one to one tens' digit and
               multiply by the other. Write
               product down to the left of #1
               answer.

Solve: 1.   5 x 5 = 25

          2.   8 + 1 = 9 and 8 x 9 = 72
               Write 72 to the left of 25.

               7225 Answer

Or: 43 x 47 = ?

          1.   3 x 7 = 21 Write down.

          2.   4 + 1 = 5 and 5 x 4 = 20
               Write 20 to left of #1 results:

               2021 Answer

TRY THESE:

          1.   75 x 75 =

          2.   35 x 35 =

          3.   72 x 78 =

          4.   41 x 49 =

          5.   83 x 87 =

          6.   64 x 66 =

Page   33 E

MULTIPLYING FACTORS EQUAL DISTANCE FROM NUMBER

Problem: | 38 X 42 = ? |

Method:
1. Square the difference each factor is from the midway number.

2. Square the midway number.

3. Subtract the product in #1 from the square of the midway number in #2.

Solve:
1. Square 2, the distance 38 and 42 are from 40, the midway number.

2. Square the midway number, 40 to get 1600.

3. Subtract square in #1 and #2. 1600 - 4 = <u>1596</u> Answer

TRY THESE:

1. 53 x 47 =

2. 62 x 58 =

3. 21 x 19 =

4. 84 x 76 =

5. 69 x 71 =

6. 79 x 81 =

7. 89 x 91 =

8. 5.9 x 6.1 =

9. 52 x 58 =

10. 34 x 36 =