

Investigating Mystery Number Puzzles

NCTM Standards 1, 6, 7, 8, 10

Solve the puzzles. The boxes next to the clues show you the number of digits in the solution.

Clues

Workspace

1 Puzzle A

- 25 is one of its 6 factors
- Sum of the digits is a multiple of 5

2 Puzzle B

- Multiple of 8 less than 7×8
- Sum of the digits is even
- Ones digit is 4 more than the tens digit

3 Puzzle C

- Product of the digits = 15
- Sum of the digits = 8

4 Puzzle D

- Multiple of 12 greater than 12×8 , but less than 12×13
- Sum of the digits is not 9
- Tens digit is double the hundreds digit

5 Puzzle E

- Square number greater than 0×0 , but less than 10×10
- Even
- Sum of the digits is even
- Tens digit is 2 more than the ones digit

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6 Puzzle F

Write clues for your own Mystery Number Puzzle. Solve your puzzle.

- _____
- _____
- _____

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7 Challenge Puzzle G

- 25 is a factor
- Less than 250
- Multiple of 10
- Multiple of 3

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