

ANSWER SHEET

Mystery Numbers

Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

Example:

I am a number between 20 and 40.

I am an even number.

I am a multiple of 8.

The sum of my digits is 5.

What number am I?

To solve this problem, follow these steps.

- Make a list of the numbers between 20 and 40.
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39
- Eliminate all odd numbers.
~~21~~, 22, ~~23~~, 24, ~~25~~, 26, ~~27~~, 28, ~~29~~, 30, ~~31~~, 32, ~~33~~, 34, ~~35~~, 36, ~~37~~, 38, ~~39~~
- Eliminate all numbers that are NOT multiples of 8.
~~22~~, 24, ~~26~~, ~~28~~, ~~30~~, 32, ~~34~~, ~~36~~, ~~38~~
- Add the digits of the remaining numbers to determine the answer.
 $2+4=6$ and $3+2=5$

Through the process of elimination, I know that the mystery number is **32** because it is a match for ALL clues.

Try this one on your own:

I am a number between 10 and 30.

I am an odd number.

I am a multiple of 7.

The sum of my digits is 3.

What number am I?



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