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## Introducing Magic Squares

Fill in the blanks to make these squares into magic squares.

(5) Jane says that, in a magic square, the sum of the top-left and bottom-right numbers are equal to the sum of the top-right and bottom-left numbers. Do you agree? Explain.
$\qquad$

## Completing Magic Squares

In a magic star, each line of 4 numbers has the same sum. Complete the magic stars.
(1)


## How Many Marbles?

Yara has 3 marbles. She puts them into 3 boxes marked $A, B$, and $C$ in many different ways. Fill in the blanks in her table and find any ways she missed.

| $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | Total |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 3 |  |
|  | 3 |  |  |
| 1 | 0 | 0 |  |
|  | 1 | 2 |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Reasoning About Money

Dora collects aluminum cans for recycling.
She gets $5 ¢$ for each can she turns in.
(1) If Dora gets $\$ 1.00$, how many cans did she turn in?
(2) If Dora turns in 30 cans, how much money will she get?
(3) Complete the table.

| Dora turned <br> in cans $\ldots$ | and she <br> got <br> 5 |
| :---: | :---: |
| 10 |  |
|  | $75 \not \subset$ |
|  | $\$ 1.00$ |
| 25 | $\$ 1.50$ |

## Drawing Conclusions

Jackie had some marbles and put all of them into three boxes marked $A, B$, and $C$. Decide if the statement is true ( T ) or false ( F ).

## Statement 1

If Jackie put the same number of marbles in each box, then the total T F number of marbles must be even.

## Statement ${ }^{2}$

If Jackie put an even number of marbles in each box, then the total T F number of marbles must be even.

## Statement ${ }^{3}$

If Jackie put an odd number of marbles in each box, then the total T

F number of marbles must be odd.

## Statement 4

If Jackie started with an even number of marbles, then she could not have put the same T F number of marbles in each box.

## Statement ${ }^{5}$

If Jackie put a different number of marbles in each box, the total T F number of marbles must be odd.

## Using the Fewest Coins

## 10 \& can be made in different ways.

(1) Are there any amounts of money that can be made in only one way? Explain.
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$\qquad$
(2) For any amount, what coins would you use to get a combination using the largest number of coins? Explain.
$\qquad$
$\qquad$
(3) Linda had 7 coins worth $53 \not \subset$ in her pocket. She used 3 coins to buy a pencil. She now has $22 \not \subset$. What were the 3 coins she used? Explain.
$\qquad$
$\qquad$
(4) How many different amounts can you have with only 2 coins? Name the coins and amounts.
(5) David has 1 quarter, 1 dime, 2 nickels, and 1 penny. How many combinations of 3 coins can he make? List the combinations.
$\qquad$
$\qquad$

## Adding and Subtracting with Coins

Add and subtract coins by completing the diagram. Show each amount with the fewest coins.


## Estimating Sums and Differences

Write a number in the box that makes the sum a little more than 60.
1

2 $\square+38=$
(3) $\square$ $+46=$ $\qquad$
4 $\square$ $+9=$
$\qquad$
(5) Write the exact sum for Problems 1 to 4 on the line.

Write a number in the box that makes the difference a little less than 30.

(7) $115-\square=$ $\qquad$
$892-\square=$ $\qquad$
© $\qquad$
(10) Write the exact difference for Problems 6 to 9 on the line.
(11) How could knowing $350+540$ help you solve $357+546 ?$

