Introducing Magic Squares

Find all the sums for each square, and tell whether or not it is a magic square.
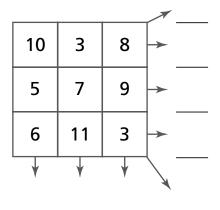
1

4	11	9
6	8	10
7	12	5

magic square? _____

2

10	11	6
5	9	13
12	7	8

magic square? _____

3

10	3	8
5	7	9
6	11	3

magic square? _____

4

7	1	8
3	5	6
4	9	2

magic square? _____

Test Prep

5 Which number sentence matches the picture?

A. 3 + 6 = 9   **C.** 8 × 3 = 24

B. 6 × 3 = 18   **D.** 48 − 16 = 32

Completing Magic Squares

Complete these magic squares so that every row, column, and diagonal has the same sum.

1

16	2	
6		14
8	18	

30

2

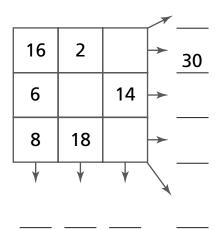|	6	21
		0
	18	15

3

13		21
23	9	19

4

25		27
		22
21		23

Test Prep

5 What number makes this sentence true?

$$24 \times \blacksquare = 24$$

A. 10   **C.** 1

B. 4   **D.** 0

6 Ella makes 9 goody bags for her party. She wants to put 5 stickers in each bag. How many stickers does she need?

A. 4   **C.** 40

B. 14   **D.** 45

How Many Marbles?

1 There are 40 gloves in the lost and found. 13 are left-hand gloves and the rest are right-hand gloves. How many right-hand gloves are there?

2 Jenny poured 42 coins out of her bank. 28 landed heads up. How many landed tails up?

3 Hector counted paperback and hardcover books. He counted 33 paperbacks and 28 hardcovers. How many books did he count?

4 Of the 50 states in the United States of America, 24 are mostly west of the Mississippi River. How many states are east of the Mississippi?

5 Carlos sells 14 books, and Susie sells 9 books. There were 34 books to sell. How many books are left to sell? Explain.

6 How many addition sentences have a sum of 7? Explain.

Test Prep

7 There are 2,340 students in the school. What is the value of the underlined digit in the number 2,340?

A. 3   **C.** 300

B. 30   **D.** 3,000

8 What is the word form for 2,045?

A. two hundred forty-five

B. two thousand, forty-five

C. two thousand, four hundred five

D. twenty-four thousand, five

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Reasoning About Money

Marcus had 34¢.
He spent more than 25¢.

1 You don't know how much Marcus spent, but . . .

A If you found out that he had 7¢ left, how much did he spend?

_____

B What is the smallest amount Marcus could have spent? If he spent that amount, how much did he have left?

_____

C What is the largest amount Marcus could have left? If he had that much left, how much did he spend?

_____

_____

2 Complete the table.

If Marcus spent ■ . . .		26¢		31¢		32¢		33¢	
. . . then he had ■ left.	7¢		0¢		6¢		5¢		4¢

Test Prep

3 Ms. Lopez assigned 8 math problems for homework. If each problem was worth 4 points, what is the largest number of points you could earn by doing the homework?

A. 12   **C.** 24

B. 16   **D.** 32

Drawing Conclusions

1 I have an odd number of pennies in one hand and an even number in the other. If I put all of my pennies together . . .

   A. The total **must** be odd.

   B. The total **must** be even.

   C. The total can be even or odd.

2 I have an odd number of pennies in one hand and an odd number in the other hand, too. If I put all of my pennies together . . .

   A. The total **must** be odd.

   B. The total **must** be even.

   C. The total can be even or odd.

3 I have an even number of pennies in one hand and an even number in the other hand, too. If I put all of my pennies together . . .

   A. The total **must** be odd.

   B. The total **must** be even.

   C. The total can be even or odd.

4 I have three groups of pennies. Only one group has an even number of pennies. If I put all my pennies together . . .

   A. The total **must** be odd.

   B. The total **must** be even.

   C. The total can be even or odd.

Test Prep

5 Kara reads 213 pages in one week. Samantha reads 267 pages. How many more pages did Samantha read than Kara?

   A. 54   **C.** 280

   B. 74   **D.** 580

6 There are 167 girls and 151 boys attending Third Street School. How many students attend Third Street School?

   A. 216   **C.** 318

   B. 218   **D.** 326

Using the Fewest Coins

1 Show how to make each amount using the fewest coins.

	Q	D	N	P
7¢				
16¢				
21¢				
31¢				
36¢				
41¢				
45¢				
55¢				
60¢				

Test Prep

2 Mark has 6 coins. He has at least 1 penny, 1 nickel, and 1 dime. He has no quarters. What is the largest amount of money he could have? Explain.

_____

_____

_____

3 Karen has 38¢. What is the smallest number of coins she could have? Explain.

_____

_____

_____

Adding and Subtracting with Coins

Use Ⓠ for quarter, Ⓓ for dime,
Ⓝ for nickel, and Ⓟ for penny. Draw
the fewest coins to make each amount.

1 59¢

2 63¢

3 61¢

4 77¢

5 69¢

6 65¢

7 32¢

8 41¢

9 99¢

10 24¢

Test Prep

11 Shoshana wrote her number pattern by skip-counting by 4s.

8, 12, 16, 21, 25, 29

Did she make any mistakes? Describe what she needs to change and explain why.

_____

_____

_____

Estimating Sums and Differences

Estimate the sum or difference.

1
$$\begin{array}{r} 51 \\ -25 \\ \hline \end{array}$$

about _____

2
$$\begin{array}{r} 43 \\ -28 \\ \hline \end{array}$$

about _____

3
$$\begin{array}{r} 73 \\ +11 \\ \hline \end{array}$$

about _____

4
$$\begin{array}{r} 68 \\ -18 \\ \hline \end{array}$$

about _____

5
$$\begin{array}{r} 32 \\ +29 \\ \hline \end{array}$$

about _____

6
$$\begin{array}{r} 17 \\ +41 \\ \hline \end{array}$$

about _____

7
$$\begin{array}{r} 21 \\ +66 \\ \hline \end{array}$$

about _____

8
$$\begin{array}{r} 49 \\ -14 \\ \hline \end{array}$$

about _____

9
$$\begin{array}{r} 94 \\ -58 \\ \hline \end{array}$$

about _____

10
$$\begin{array}{r} 36 \\ +33 \\ \hline \end{array}$$

about _____

11
$$\begin{array}{r} 62 \\ -55 \\ \hline \end{array}$$

about _____

12
$$\begin{array}{r} 89 \\ +\ 4 \\ \hline \end{array}$$

about _____

Test Prep

13 A number is greater than $673 - 592$ and less than $216 - 133$. What is this number? Explain how you found your answer.

_____

_____

_____