

# Math Puzzles: Grades 3 and 4, Set A

Name: \_\_\_\_\_

Think it through. There is one answer to every puzzle.

## Picture equations

In each puzzle, every picture is a different number. The same picture is always the same number.

 +  +  =  + 

 +  +  = 24

 = \_\_\_\_\_       = \_\_\_\_\_

 +  = 14

 ×  = 35

 +  = 13

 = \_\_\_\_\_       = \_\_\_\_\_       = \_\_\_\_\_

## What is my number?

I think of a number. I multiply it by 3 and then add 5. I get 29.

My number is \_\_\_\_\_

I think of a number. I subtract 6 and then double the result. I get 30.

My number is \_\_\_\_\_

I think of a number. Half of my number plus 9 is 20. ★

My number is \_\_\_\_\_

## How many of each?

A farmer has 12 animals. Some are chickens and some are cows. Together they have 36 legs. How many cows does the farmer have?

 2 legs

 4 legs

Answer: \_\_\_\_\_ cows

Try it in the table. The first row is done.

| Chickens | Cows | Legs |
|----------|------|------|
| 12       | 0    | 24   |
|          |      |      |
|          |      |      |
|          |      |      |
|          |      |      |

## Who am I?

I am a number between 50 and 60. I am even. My two digits add up to 9.

I am \_\_\_\_\_

I am a two-digit number less than 30. I am odd. I am a multiple of 9.

I am \_\_\_\_\_

I am between 40 and 60. You say me when you count by 6s and when you count by 8s. ★

I am \_\_\_\_\_

# Math Puzzles: Grades 3 and 4, Set A (Answer Key)

Think it through. There is one answer to every puzzle.

## Picture equations

In each puzzle, every picture is a different number. The same picture is always the same number.

$$\begin{array}{ccccccc} \text{🐵} & + & \text{🐵} & + & \text{🐵} & = & \text{🐻} & + & \text{🐻} \\ \text{🐵} & + & \text{🐻} & + & \text{🐻} & = & 24 \end{array}$$

$$\text{🐵} = \underline{6} \qquad \text{🐻} = \underline{9}$$

$$\begin{array}{ccc} \text{🤖} & + & \text{🤖} & = & 14 \\ \text{🤖} & \times & \text{🐸} & = & 35 \\ \text{🐸} & + & \text{🍪} & = & 13 \end{array}$$

$$\text{🤖} = \underline{7} \qquad \text{🐸} = \underline{5} \qquad \text{🍪} = \underline{8}$$

## What is my number?

I think of a number. I multiply it by 3 and then add 5. I get 29.

My number is 8

I think of a number. I subtract 6 and then double the result. I get 30.

My number is 21

I think of a number. Half of my number plus 9 is 20. ★

My number is 22

## How many of each?

A farmer has 12 animals. Some are chickens and some are cows. Together they have 36 legs. How many cows does the farmer have?



2 legs



4 legs

Answer: 6 cows

Try it in the table. The first row is done.

| Chickens | Cows | Legs |
|----------|------|------|
| 12       | 0    | 24   |
| 6        | 6    | 36   |
|          |      |      |
|          |      |      |
|          |      |      |

## Who am I?

I am a number between 50 and 60. I am even. My two digits add up to 9.

I am 54

I am a two-digit number less than 30. I am odd. I am a multiple of 9.

I am 27

I am between 40 and 60. You say me when you count by 6s and when you count by 8s. ★

I am 48