

Math Puzzles: Grades 3 and 4, Set B

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.

 +  =  +  + 

 +  +  = 32

 = _____

 = _____

 ×  = 36

 +  = 15

 ×  = 27

 = _____

 = _____

 = _____

What is my number?

I think of a number. I multiply it by 4 and then subtract 3. I get 33.

My number is _____

I think of a number. I add 7 and then double the result. I get 40.

My number is _____

I think of a number. I divide it by 3 and then add 15. I get 22. ★

My number is _____

How many of each?

A farmer counts 15 animals by the pond. Some are ducks and some are cows. Together they have 44 legs. How many cows does the farmer count?

 2 legs

 4 legs

Answer: _____ cows

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

Ducks	Cows	Legs
15	0	30

Who am I?

I am a number between 30 and 40. I am odd. My two digits add up to 8.

I am _____

I am a two-digit number less than 40. I am even. I am a multiple of 7. My two digits add up to 10.

I am _____

I am between 60 and 80. You say me when you count by 8s and when you count by 9s. ★

I am _____

Math Puzzles: Grades 3 and 4, Set B (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.

$$\begin{array}{rclclcl} \text{fox} & + & \text{fox} & = & \text{cat} & + & \text{cat} & + & \text{cat} \\ \text{fox} & + & \text{fox} & + & \text{cat} & = & 32 \end{array}$$

$$\text{fox} = \underline{12} \qquad \text{cat} = \underline{8}$$

$$\begin{array}{rclcl} \text{dog} & \times & \text{dog} & = & 36 \\ \text{dog} & + & \text{duck} & = & 15 \\ \text{duck} & \times & \text{kite} & = & 27 \end{array}$$

$$\text{dog} = \underline{6} \qquad \text{duck} = \underline{9} \qquad \text{kite} = \underline{3}$$

What is my number?

I think of a number. I multiply it by 4 and then subtract 3. I get 33.

My number is 9

I think of a number. I add 7 and then double the result. I get 40.

My number is 13

I think of a number. I divide it by 3 and then add 15. I get 22. ★

My number is 21

How many of each?

A farmer counts 15 animals by the pond. Some are ducks and some are cows. Together they have 44 legs. How many cows does the farmer count?



2 legs



4 legs

Answer: 7 cows

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

Ducks	Cows	Legs
15	0	30
8	7	44

Who am I?

I am a number between 30 and 40. I am odd. My two digits add up to 8.

I am 35

I am a two-digit number less than 40. I am even. I am a multiple of 7. My two digits add up to 10.

I am 28

I am between 60 and 80. You say me when you count by 8s and when you count by 9s. ★

I am 72