

Math Puzzles: Grades 3 and 4, Set C

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.

 +  +  +  =  + 

 +  = 18

 = _____  = _____

 +  = 16

 ×  = 24

 +  = 12

 = _____  = _____  = _____

What is my number?

I think of a number. I double it and then add 9. I get 31.

My number is _____

I think of a number. I subtract 8 and then multiply the result by 3. I get 27.

My number is _____

I think of a number. I multiply it by itself. I get 49. ★

My number is _____

How many of each?

A ranch has 20 animals. Some are chickens and some are horses. Together they have 58 legs. How many horses are on the ranch?



Answer: _____ horses

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

Chickens	Horses	Legs
20	0	40

Who am I?

I am a number between 20 and 30. I am odd. My two digits add up to 9.

I am _____

I am a multiple of 6. I am greater than 6 × 8. I am less than 7 × 8.

I am _____

I am a two-digit number. My tens digit is double my ones digit. My two digits add up to 12. ★

I am _____

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

$$\begin{array}{ccccccc} \text{cat} & + & \text{cat} & + & \text{cat} & + & \text{cat} & = & \text{dog} & + & \text{dog} \\ \text{cat} & + & \text{dog} & = & 18 \end{array}$$

$$\text{cat} = \underline{6} \quad \text{dog} = \underline{12}$$

$$\begin{array}{ccc} \text{apple} & + & \text{apple} & = & 16 \\ \text{apple} & \times & \text{fish} & = & 24 \\ \text{fish} & + & \text{kite} & = & 12 \end{array}$$

$$\text{apple} = \underline{8} \quad \text{fish} = \underline{3} \quad \text{kite} = \underline{9}$$

What is my number?

I think of a number. I double it and then add 9. I get 31.

My number is 11

I think of a number. I subtract 8 and then multiply the result by 3. I get 27.

My number is 17

I think of a number. I multiply it by itself. I get 49. ★

My number is 7

How many of each?

A ranch has 20 animals. Some are chickens and some are horses. Together they have 58 legs. How many horses are on the ranch?



2 legs



4 legs

Answer: 9 horses

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

Chickens	Horses	Legs
20	0	40
11	9	58

Who am I?

I am a number between 20 and 30. I am odd. My two digits add up to 9.

I am 27

I am a multiple of 6. I am greater than 6×8 . I am less than 7×8 .

I am 54

I am a two-digit number. My tens digit is double my ones digit. My two digits add up to 12. ★

I am 84