MATH

Ten times as much

Name _____ Date _____

I can explain that each place is 10 times the place to its right.

1 How it works

Every place is worth 10 times the place to its right. 50 is 10 times 5, and 500 is 10 times 50. When you multiply by 10, each digit moves one place to the left. When you divide by 10, each digit moves one place to the right.

5 50 500 5,000

Each step is 10 times as much.

One place left = × 10

2 Multiply and divide by 10

Times 10: one place left. Divided by 10: one place right.

10 × 8 = ☐

10 × 500 = ☐

10 × 7 = ☐

10 × 300 = ☐

600 ÷ 10 = ☐

40,000 ÷ 10 = ☐

200 ÷ 10 = ☐

90,000 ÷ 10 = ☐

How did I do? ☆ ☆ ☆

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Practice

Name _____ Date _____

I can see that each place is 10 times the place to its right.

1 How many times as much?

Count how many places the digit moved.

800 is ☐ times as much as 80

6,000 is ☐ times as much as 600

5,000 is ☐ times as much as 50

40,000 is ☐ times as much as 4,000

700 is ☐ times as much as 7

20,000 is ☐ times as much as 200

2 Keep multiplying by 10

5	☐	☐	☐	☐
4	☐	☐	☐	☐
7	☐	☐	☐	☐
2	☐	☐	☐	☐

How did I do? ☆ ☆ ☆

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Think deeper

Name _____ Date _____

I can explain my thinking about place value.

1 True or false?

1. 10 × 450 = 4,500 — true / false
2. 3,000 ÷ 10 = 30 — true / false
3. The 8 in 800 is 10 times the 8 in 80 — true / false
4. 600 is 100 times as much as 6 — true / false
5. 5,000 ÷ 10 = 500 — true / false
6. 10 × 70 = 7,000 — true / false

2 Think about it

1. What happens to a digit when you multiply by 10?
2. What is 10 times 10 times 6?
3. Is 3,000 ten times or a hundred times 30?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use place value to solve problems.

1 Read, think, answer

Use a place value chart if it helps.

1 Adam has 30 stickers. Noor has 10 times as many. How many does Noor have?

Answer:

2 A shop sold 4,000 pencils this year and 400 last year. How many times as many this year?

Answer:

3 In 5,500, how does the 5 in the thousands place compare with the 5 in the hundreds place?

Answer:

4 Adam says 700 ÷ 10 = 7. Is Adam right?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: ten times as much

1 Page 1

Answers: 1) 80; 2) 60; 3) 5,000; 4) 4,000; 5) 70; 6) 20; 7) 3,000; 8) 9,000.

2 Page 2

Times: 1) 10; 2) 10; 3) 100; 4) 10; 5) 100; 6) 100.

Chains: 1) 50, 500, 5,000, 50,000; 2) 40, 400, 4,000, 40,000; 3) 70, 700, 7,000, 70,000; 4) 20, 200, 2,000, 20,000.

3 Page 3

True or false: 1) true; 2) false; 3) true; 4) true; 5) true; 6) false.

Think: 1) It moves one place left; 2) 600; 3) A hundred times.

4 Page 4: word problems

1) 300 stickers
2) 10 times as many
3) It is 10 times as much (5,000 and 500).
4) No. 700 ÷ 10 = 70.

5 Teaching tip

Avoid saying "just add a zero". It stops working with decimals in 5th grade. Say "each digit moves one place left" instead.

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