MATH

Value of a digit

Name _____ Date _____

I can find the value of a digit from its place.

1 How it works

A digit's value depends on its place. In 5,732 the 7 is in the hundreds place, so its value is 7 × 100 = 700. The same digit in another place has a different value: in 7,532 the 7 is worth 7,000.

5,732

The 7 is in the hundreds place.

Its value is 700.

2 What is the value of the underlined digit?

Digit × its place.

1. 8,899 = _____
2. 3,870 = _____
3. 330,751 = _____
4. 4,656 = _____
5. 29,254 = _____
6. 5,286 = _____
7. 367,411 = _____
8. 99,346 = _____
9. 646,864 = _____
10. 492,641 = _____

How did I do? ☆ ☆ ☆

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Practice

Name _____ Date _____

I can find the digit in a given place.

1 Which digit is in that place?

19,291: hundreds ☐

32,060: thousands ☐

33,198: ten thousands ☐

373,094: hundred thousands ☐

3,296: hundreds ☐

2,268: hundreds ☐

5,181: thousands ☐

207,722: ten thousands ☐

2 Build a number

Many answers are right.

1. Write a 4-digit number with 7 in the hundreds place. ☐
2. Write a 5-digit number with 0 in the thousands place. ☐
3. Write a 6-digit number with 9 in the ten thousands place. ☐

How did I do? ☆ ☆ ☆

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Think deeper

Name _____ Date _____

I can explain my thinking about place value.

1 Same digit, different value

In 330, the first 3 is worth ☐
and the second 3 is worth ☐
times as much: ☐

In 5,500, the first 5 is worth ☐
and the second 5 is worth ☐
times as much: ☐

In 70,700, the first 7 is worth ☐
and the second 7 is worth ☐
times as much: ☐

In 22,000, the first 2 is worth ☐
and the second 2 is worth ☐
times as much: ☐

2 Think about it

1. Why is the 4 in 400 worth more than in 40? ☐
2. What is the value of 0 in 5,083? ☐
3. Which place is just left of the thousands? ☐

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 A house costs $348,500. What is the value of the 4?

Answer:

2 In 7,777 each 7 has a different value. What is the value of the first 7?

Answer:

3 Ben says the 6 in 46,215 is worth 6 hundred. Is Ben right?

Answer:

4 Aisha makes a number with 5 in the ten thousands place and 2 in the ones place. Write one.

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: value of a digit

1 Page 1

Value: 1) 90; 2) 70; 3) 50; 4) 50; 5) 9,000; 6) 80; 7) 10; 8) 9,000; 9) 6,000; 10) 600.

2 Page 2

Digit: 1) 2; 2) 2; 3) 3; 4) 3; 5) 2; 6) 2; 7) 5; 8) 0.
Build: answers will vary, for example 3,712; 40,516; 295,031.

3 Page 3

Same digit: 1) 300 and 30; 10 times; 2) 5,000 and 500; 10 times; 3) 70,000 and 700; 100 times; 4) 20,000 and 2,000; 10 times.
Think: 1) It is one place to the left; 2) 0 (no hundreds); 3) Ten thousands.

4 Page 4: word problems

1) 40,000 ($40,000)
2) 7,000
3) No. It is in the thousands place, so it is worth 6,000.
4) Any number like 50,002 or 57,312

5 Teaching tip

Have children name the place before they say the value: "hundreds place, so 700". Saying the place first stops them from just reading the digit.

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