

Luna's Space Adventure

Name _____

Grade 4 · Ten times the place · 4.NBT.A.1

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Ten times as much Moving one place left makes a digit worth ten times as much.

$$4,000 = 10 \times \boxed{}$$

$$80,000 = 10 \times \boxed{}$$

$$300 = 10 \times \boxed{}$$

$$10,000 = 10 \times \boxed{}$$

$$500 = 10 \times \boxed{}$$

$$40 = 10 \times \boxed{}$$

$$90 = 10 \times \boxed{}$$

$$3,000 = 10 \times \boxed{}$$

What is the digit worth? Find the place, then write its value.

In 760,221, the tens digit is worth _____

In 153,487, the tens digit is worth _____

In 226,950, the tens digit is worth _____

In 480,472, the hundred thousands digit is worth _____

In 824,332, the tens digit is worth _____

In 241,088, the hundred thousands digit is worth _____

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Ten times as much Moving one place left makes a digit worth ten times as much.

$$4,000 = 10 \times \boxed{400}$$

$$80,000 = 10 \times \boxed{8000}$$

$$300 = 10 \times \boxed{30}$$

$$10,000 = 10 \times \boxed{1000}$$

$$500 = 10 \times \boxed{50}$$

$$40 = 10 \times \boxed{4}$$

$$90 = 10 \times \boxed{9}$$

$$3,000 = 10 \times \boxed{300}$$

What is the digit worth? Find the place, then write its value.

In 760,221, the tens digit is worth

20

In 153,487, the tens digit is worth

80

In 226,950, the tens digit is worth

50

In 480,472, the hundred thousands digit is worth

400,000

In 824,332, the tens digit is worth

30

In 241,088, the hundred thousands digit is worth

200,000

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GUIDE

1 What this sheet practises

How place value works: each place is worth ten times the place to its right. The 2 in 200 is worth ten times the 2 in 20.

2 A problem from the sheet, worked out

Ten times as much Moving one place left makes a digit worth ten times as much.

$$4,000 = 10 \times \boxed{400}$$

$$80,000 = 10 \times \boxed{8000}$$

$$300 = 10 \times \boxed{30}$$

$$10,000 = 10 \times \boxed{1000}$$

$$500 = 10 \times \boxed{50}$$

$$40 = 10 \times \boxed{4}$$

How: Moving a digit one place left makes it worth ten times as much, so $200 = 10 \times 20$. To find what a digit is worth, name its place and write zeros for the places after it.

3 Words to know

place value what a digit is worth from where it sits

digit one of the symbols 0 to 9

ten times worth 10 of the smaller amount

ten thousands the fifth place from the right

4 Watch for

- One zero too many: $10 \times 20 = 2,000$.
- Giving the digit (2) instead of what it's worth (20,000).
- Counting places from the left instead of from the ones place.

5 Where it fits

BEFORE

3.NBT.A.3

Multiply one-digit numbers by multiples of 10.

THIS SHEET

4.NBT.A.1

Understand that each place is worth ten times the place to its right.

NEXT

5.NBT.A.1

Understand that each place is ten times the place to its right and a tenth of the one to its left.

6 Helping at home

With play money, show that ten \$1 bills trade for one \$10, and ten \$10 bills for one \$100. Each step to the left is worth ten of the one before.