THIRD SPACE LEARNING

Word Problems

11 place value and rounding questions to develop reasoning and problem solving skills

Grade 4

Questions

Name: ..... Date: .....

1 A map compares the distances between towns.
Complete the statements.

a Tampa is 135 km from Orlando. Tampa is _____ km from Ashland, which is 10 times farther away.

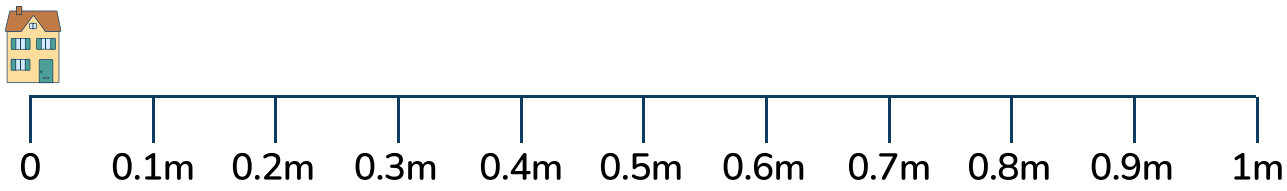
b Carolina Beach is 4,000 km from Los Angeles. Carolina Beach is _____ km from Sea Breeze, which is 1,000 times closer.

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2 Oliver has the digits 4, 6, 9, 2, and 1. He uses each digit once to make different 5-digit numbers.
Show the largest AND smallest 5-digit number Oliver can make, then compare them using < or >.

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3 Disha is walking. She finds a butterfly 0.58 meters from her house. Show *approximately* where Disha found the butterfly on the number line below.



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4 Amos says, “I know 50,000 ÷ 500 = 10, because 50,000 is 10 times bigger than 500.”
Do you agree? Explain why.

Answer

5 Sunset City has a population of about 30,000. If the actual population was rounded to the nearest hundred, what are 3 possible populations for Sunset City?

6 I have a 5-digit number.
Decide what my number could be using the clues below.

It is a decimal number.
The hundreds digit is the same as the hundredths digit.
The tenths digit is the same as the tens digit.
At least one of the digits has no value.
The digits all add up to 6.

Answer

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7 Claire has 1,459 pictures on her phone. Weston has 1,521 pictures on his phone. Write two statements to correctly compare the photos Claire and Weston have on their phones.

[ ] > [ ] and [ ] < [ ]

8 Yesterday, it rained 0.4 inches at Gadise's house. It rained 0.39 inches at Carlton's house. Compare the amount of rain by completing the statement using the symbol < or > and explain how you determined your solution.

0.4 ◯ 0.39

Answer

9 Ileana is trying to round 43,910 to the nearest thousand, but she is confused. Explain a strategy below that Ileana can use, including the correct answer.

Answer

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10 Antonio says “70,000 is 1,000 times larger than 70.”
Circle the equation(s) that support Antonio’s claim.

70,000 ÷ 1,000 = 70	70 x 1,000 = 70,000
7,000 x 1,000 = 70	1,000 ÷ 70 = 7,000
70 x 7,000 = 1,000	70,000 ÷ 70 = 1,000

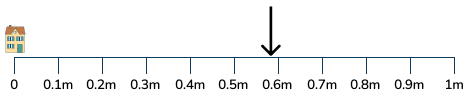
Challenge Question!

Use the numbers 3, 4, 5, 6 and 7 only once to make the comparisons true.

. 1 > . 38 > . 4

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Answers

Question number	Question	Answers	Standard
1	A map compares the distances between towns. Complete the statements. a) Tampa is 135 km from Orlando. Tampa is ?km from Ashland, which is 10 times farther away. b) Carolina Beach is 4,000 km from Los Angeles. Carolina Beach is ?km from Sea Breeze, which is 1,000 times closer.	a) 1,350 km b) 4 km	4.NBT.A.1
2	Oliver has the digits 4, 6, 9, 2, and 1. He uses each digit once to make different 5-digit numbers. Show the largest AND smallest 5-digit number Oliver can make, then compare them using < or >. _ _ _ _ _ ? _ _ _ _ _	96,421 > 12,469 or 12,469 < 96,421	4.NBT.A.2
3	Disha is walking. She finds a butterfly 0.58 meters from her house. Show *approximately* where Disha found the butterfly on the number line below.	Between 0.5 and 0.6, but closer to 0.6 	4.NF.C.6
4	Amos says, “I know 50,000 ÷ 500 = 10, because 50,000 is 10 times bigger than 500.” Do you agree? Explain why.	I do not agree, because 50,000 ÷ 500 = 100, so it is 100 times bigger. *Answers will vary, but should identify the mistake and show place value understanding.	4.NBT.A.1

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Question number	Question	Answers	Standard
5	Sunset City has a population of about 30,000. If the actual population was rounded to the nearest hundred, what are 3 possible populations for Sunset City?	Any 3 numbers from 29,950 to 30,049.	4.NBT.A.3
6	I have a 5-digit number. Decide what my number could be using the clues below. It is a decimal number. The hundreds digit is the same as the hundredths digit. The tenths digit is the same as the tens digit. At least one of the digits has no value. The digits all add up to 6.	The number could be any of the following possibilities: 120.21; 210.12; 202.02; 300.03	4.NF.C.6
7	Claire has 1,459 pictures on her phone. Weston has 1,521 pictures on his phone. Write two statements to correctly compare the photos Claire and Weston have on their phones.	1,521 > 1,459 and 1,459 < 1,521	4.NBT.A.2
8	Yesterday, it rained 0.4 inches at Gadise's house. It rained 0.39 inches at Carlton's house. Compare the amount of rain by completing the statement using the symbol < or > and explain how you determined your solution. 0.4 ? 0.39	0.4 > 0.39 Tenths are bigger than hundredths, and 0.4 has more tenths than 0.39, so it is bigger. *Explanations will vary, but should show place value understanding.	4.NF.C.7

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Question number	Question	Answers	Standard
9	Ileana is trying to round 43,910 to the nearest thousand, but she is confused. Explain a strategy below that Ileana can use, including the correct answer.	Ileana can think about the size of the number. Since 910 is closer to the next thousand than to 0, she needs to round up to 44,000. *Answers will vary, but should show place value understanding.	4.NBT.A.3
10	Antonio says “70,000 is 1,000 times larger than 70.” Circle the equation(s) that support Antonio’s claim.	The following calculations should be circled: 70,000 ÷ 1,000 = 70 70 x 1,000 = 70,000 70,000 ÷ 70 = 1,000	4.NBT.A.1
Challenge Question	Use the numbers 3, 4, 5, 6 and 7 only once to make the comparisons true. ?.1? > ?.38 > ?.4?	Possible answer: 7.15 < 4.38 < 3.46	4.NF.C.7

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