Place value & powers of 10

Name _____ Date _____

Write what the digit is worth, or use 10 times and 1/10 of.

Common Core 5.NBT.A.1–2

Example In 52,706.38 what is the 7 worth?

1. The 7 is in the hundreds place.
2. So it is worth 7 hundreds = 700.

Answer: 700

1. In 43.15 the 4 is worth ____
2. In 12.358 the 5 is worth ____
3. In 96,127.4 the 2 is worth ____
4. $\frac{1}{10}$ of 656 is ____
5. $\frac{1}{10}$ of 77 is ____
6. $\frac{1}{10}$ of 28.87 is ____

Multiply or divide by a power of 10.

Example $2.19 \times 10^2 = ?$

1. $10^2 = 100$, so every digit moves 2 places to the left.
2. 2.19 → 219.

Answer: 219

7. $0.41 \times 10^3 =$ ____
8. $3.39 \times 10 =$ ____
9. $0.87 \times 1{,}000 =$ ____
10. $587 \div 1{,}000 =$ ____
11. $594 \div 100 =$ ____
12. $64.5 \div 100 =$ ____

Free to share with other families. Not for resale.

Comparing & rounding

Name _____ Date _____

Write >, < or = in the box.

Common Core 5.NBT.A.3b, 5.NBT.A.4

Example Compare 6.3 and 6.29

1. Give both the same number of places: 6.30 and 6.29.
2. 30 hundredths is more than 29 hundredths.

Answer: 6.3 > 6.29

1. 3.5 ☐ 3.05
2. 8.6 ☐ 8.60
3. 9.45 ☐ 9.450
4. 4.906 ☐ 4.9
5. 6.05 ☐ 6.5
6. 1.88 ☐ 1.83

Round to the place given.

Example Round 4.851 to the nearest tenth.

1. 4.851 is between 4.8 and 4.9.
2. Look at the hundredths digit: 5, so round up.

Answer: 4.9

7. 5.24 → nearest whole: ☐
8. 40.54 → nearest whole: ☐
9. 22.954 → nearest tenth: ☐
10. 9.856 → nearest tenth: ☐
11. 0.181 → nearest hundredth: ☐
12. 0.108 → nearest hundredth: ☐

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Answers

Answers are in the same order as the boxes.

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1. 40	3. 20	5. 7.7	7. 410	9. 870	11. 5.94
2. 0.05	4. 65.6	6. 2.887	8. 33.9	10. 0.587	12. 0.645

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1. >	3. =	5. <	7. 5	9. 23.0	11. 0.18
2. =	4. >	6. >	8. 41	10. 9.9	12. 0.11

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