Lesson 1-1: Patterns with Exponents and Powers of 10
Solve and Share

Content Standard: 5.NBT.A.2
I Can Statement: I can write numbers using exponents

A store sells AA batteries. There are 10 batteries in a package. How many batteries are in 10 packages? 100 packages? Solve these problems while showing your work.

Lesson 1-1: Patterns with Exponents and Powers of 10
Independent Practice

1. $3 \times 10^1 =$
$3 \times 10^2 =$
$3 \times 10^3 =$
$3 \times 10^4 =$

2. $2 \times 10 =$
$2 \times 100 =$
$2 \times 1{,}000 =$
$2 \times 10{,}000 =$

3. $9 \times 10^1 =$
$9 \times 10^2 =$
$9 \times 10^3 =$
$9 \times 10^4 =$

4. 8×10^4

5. $4 \times 1{,}000$

6. 5×10^2

7. $6 \times 10{,}000$

8. 4×10^1

9. 100×9

10. $10^3 \times 6$

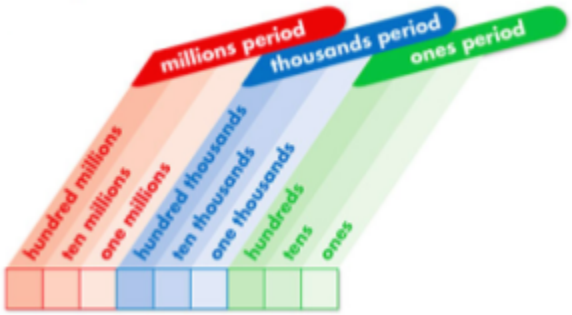
11. 8×10^5

12. Write 10 X 10 X 10 X 10 X 10 as an exponent.

Lesson 1-2: Understand Whole-Number Place Value
Solve and Share

Content Standard: 5.NBT.A.1
I Can Statement: I can understand place-value relationships

The population of a city is 1,880,000. What is the value of the two 8s in this number? How are the two values related? Solve these problems while showing your work.



Lesson 1-2: Independent Practice

For questions 1-3, write each number in standard form.

1. $8{,}000{,}000 + 300 + 9$
2. $(4 \times 10^4) + (6 \times 10^2)$
3. $10{,}000 + 20 + 3$

For questions 4-6, write each number in expanded form.

4. 5,360
5. 102,200
6. 85,000,011

For questions 7-9, write the values of the given digits.

7. the 7s in 6,778
8. the 9s in 990,250
9. the 1s in 2,011,168

Lesson 1-3: Decimals to the Thousandths
Solve and Share

Content Standard: 5.NBT.A.1. 5.NBT.A.3a
I Can Statement: I can read and write decimals to the thousandths.

Jennie is training for a race. One Tuesday she finished her sprint 0.305 seconds faster than she did on Monday. How can you explain the meaning of 0.305? Solve these problems while showing your work.

Lesson 1-3: Independent Practice

For questions 1-6, write each decimal as a fraction.

1. 0.007

2. 0.08

3. 0.065

4. 0.832

5. 0.9

6. 0.203

For questions 7-12, write each fraction as a decimal.

7. $\frac{434}{1,000}$

8. $\frac{3}{10}$

9. $\frac{17}{1,000}$

10. $\frac{873}{1,000}$

11. $\frac{309}{1,000}$

12. $\frac{6}{100}$

Lesson 1-4: Understand Decimal Place Value
Solve and Share

Content Standard: 5.NBT.A.3a
I Can Statement: I can read and write decimals in different ways.

A runner won a 100- meter race with a time of 9.85 seconds. How can you use place value to explain this time? Solve these problems while showing your work.

Lesson 1-4: Independent Practice

For questions 1- 4, write each number in standard form.

1. 4 X 100 + 7 X 10 + 6 X 1 + 6 X (1/10)

2. Four and sixty-eight thousandths

3. $(2 \times 1) + \left(6 \times \frac{1}{1{,}000}\right)$

4. $(3 \times 1) + \left(3 \times \frac{1}{10}\right) + \left(9 \times \frac{1}{1{,}000}\right)$

5. Nine and twenty hundredths

For questions 6- 8, write two decimals that are equivalent to the given decimals.

6. 2.200

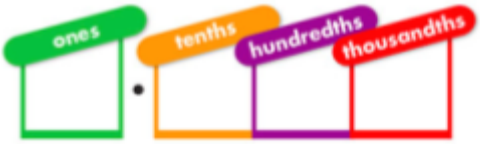
7. 8.1

8. 9.50

Lesson 1-5: Compare Decimals
Solve and Share

Content Standard: 5.NBT.A.3b
I Can Statement: I can compare decimals to the thousandths.

The lengths of three ants were measured in a laboratory. The lengths were 0.521 centimeter, 0.498 centimeter, and 0.550 centimeter. Which ant was the longest? Which ant was the shortest? Solve these problems while showing your work.



Lesson 1-5: Independent Practice

For questions 1-6, compare the two numbers. Write >, <, or = for each ◯ .

1. 0.890 ◯ 0.89
2. 5.733 ◯ 5.693
3. 9.707 ◯ 9.717
4. 3.692 ◯ 3.697
5. 7.216 ◯ 7.203
6. 3.074 ◯ 3.740

For questions 7-12, order the decimals from greatest to least.

7. 878.403, 887.304, 887.043
8. 435.566, 436.565, 435.665
9. 5.540, 5.631, 5.625
10. 0.675, 1.529, 1.35, 0.693

Lesson 1-6: Round Decimals
Solve and Share

Content Standard: 5.NBT.A.4
I Can Statement: I can round decimals to different places.

In science class, Marci recorded numbers from an experiment as 12.87, 12.13, 12.5, and 12.08. Which numbers are closer to 12? Which numbers are closer to 13? How can you tell?
Solve these problems while showing your work.

Lesson 1-6: Independent Practice

For questions 1- 6, round each number to the place of the underlined digit.

1. 16.5

2. 56.1

3. 1.32

4. 42.78

5. 1.652

6. 582.04

For questions 7- 12, round each decimal to the nearest whole number.

7. 4.5

8. 57.3

9. 34.731

10. 62.1

11. 109.5

12. 19.4