

Warm Up

11/7

Rewrite in decimal form.

1. 3.79×10^5

379,000.

2. 2.5×10^{-2}

0.025

3. 8.44×10^1

84.4

4. 6.5393×10^4

65,393

5. 3.589×10^{-3}

0.003589

6. 9.1187×10^0

9.1187

7. 1.0056×10^{-5}

0.000010056

8. 7.2658746×10^8

726,587,460.0

Rewrite in scientific notation.

7,960,000,000

$$7.96 \times 10^9$$

0.007485

$$7.485 \times 10^{-3}$$

45.668

$$4.5668 \times 10^1$$

998.653

$$9.98653 \times 10^2$$

0.0000056388

$$5.6388 \times 10^{-6}$$

63,000,000

$$6.3 \times 10^7$$

0.0602

$$6.02 \times 10^{-2}$$

22,078,600

$$2.20786 \times 10^7$$

0.000070005

$$7.0005 \times 10^{-5}$$

64.3

$$6.43 \times 10^1$$

Homework Questions?

Extra Practice

Rewrite in decimal form.

$$1. 3.79 \times 10^5 = \underline{379,000}$$

3.79000

$$2. 2.5 \times 10^{-2} = \underline{0.025}$$

0.025

$$3. 8.44 \times 10^1 = \underline{84.4}$$

8.44

$$4. 6.5393 \times 10^4 = \underline{65,393}$$

6.5393

$$5. 3.589 \times 10^{-3} = \underline{0.003589}$$

0.03589

$$6. 9.1187 \times 10^0 = \underline{9.1187}$$

Don't need to move any place values.

$$7. 1.0056 \times 10^{-5} = \underline{0.000010056}$$

0.00001.0056

$$8. 7.2658746 \times 10^8 = \underline{726,587,460}$$

7.26587460

Extra Practice

Rewrite in scientific notation.

$$\underline{7,960,000,000} = \underline{7.96 \times 10^9}$$

$$\underline{0.007485} = \underline{7.485 \times 10^{-3}}$$

$$\underline{45.668} = \underline{4.5668 \times 10^1}$$

$$\underline{998.653} = \underline{9.98653 \times 10^2}$$

$$\underline{0.0000056388} = \underline{5.6388 \times 10^{-6}}$$

$$\underline{63,000,000} = \underline{6.3 \times 10^7}$$

$$\underline{0.0602} = \underline{6.02 \times 10^{-2}}$$

$$\underline{22,078,600} = \underline{2.20786 \times 10^7}$$

$$\underline{0.000070005} = \underline{7.0005 \times 10^{-5}}$$

$$\underline{64.3} = \underline{6.43 \times 10^1}$$

What Is Special About a Radioactive Cat?

Choose the correct answer for each exercise and circle the letter pair next to it. Write the uppercase letter in the box containing the lowercase letter.



In Exercises 1-2, choose the number that is written in scientific notation.

1. **r·Y** 34.5×10^5 **m·E** 3.45×10^6 **y·P** 0.345×10^7
 2. **b·G** 0.77×10^{-3} **i·R** $7.7 + 10^{-4}$ **s·L** 7.7×10^{-4}

In Exercises 3-6, find the value of n .

3. $94,000,000 = 9.4 \times 10^n$ **n·O** 8 **e·A** 7
 4. $555,500,000,000 = 5.555 \times 10^n$ **i·I** 11 **k·C** 10
 5. $0.00006 = 6 \times 10^n$ **w·S** -4 **j·G** -11
 6. $0.0000000000375 = 3.75 \times 10^n$ **f·U** -12 **y·E** -5

In Exercises 7-12, write the number in decimal form.

7. 3.8×10^5 **r·A** 38,000,000 **p·R** 0.00038
 8. 3.8×10^{-5} **d·L** 3,800,000 **w·I** 380,000
 9. 3.80×10^7 **b·T** 0.000038 **o·D** 38,000
 10. 6.25×10^4 **a·A** 0.000000625 **n·E** 62,500
 11. 6.25×10^{-3} **v·M** 625,000 **k·H** 0.0000000625
 12. 6.25×10^{-8} **z·S** 0.00625 **h·L** 0.00062

In Exercises 13-18, write the number in scientific notation.

13. 72,000 **q·F** 7.2×10^{10} **q·W** 7.2×10^5
 14. 7,200,000,000,000 **f·S** 7.2×10^{12} **o·N** 7.2×10^{-7}
 15. 0.00000072 **a·I** 7.2×10^4 **t·D** 7.2×10^{-6}
 16. 41,900,000 **v·L** 4.19×10^{-3} **x·T** 4.19×10^{-5}
 17. 0.00419 **l·R** 4.19×10^{-10} **d·H** 4.19×10^7
 18. 0.0000000000419 **c·S** 4.19×10^6 **h·E** 4.19×10^{-11}

In Exercises 19-22, write the number in scientific notation.

19. 22.2×10^3 **p·O** 2.22×10^5 **l·T** 2.22×10^7
 20. 0.222×10^8 **t·F** 2.22×10^4 **c·S** 2.22×10^9
 21. 0.54×10^{-4} **g·L** 5.4×10^{-6} **u·P** 5.4×10^{-16}
 22. 54×10^{-15} **q·H** 5.4×10^{-14} **x·V** 5.4×10^{-5}

a b c d e f g h i j k l m n o p q r s t u v w x y z



Converting Between Standard
and Scientific Notation
(at least 20 minutes)

Homework

Finish classwork