

Warm Up

11/8

Work on this with your group:

James currently has an 88% average after taking 4 math assessments. *352 total points*

There are 2 more assessments before the end of the term.

If she wants a 90% average, list two possible scores she can get on the next two assessments.

$$90 \cdot 6 = 540$$

Total points on 6 tests needed to have a 90 average.

*540 Total needed
352 Amt. from 4 tests*

188 *points needed*

Scores

94, 94

100, 88

98, 90

96, 92

89, 99

93, 95

91, 97

Homework Questions?

Extra Practice

Rewrite in decimal form.

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

3.79000

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

0.25

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.

7,960,000,000 = 7.96×10^9

0.007485 = 7.485×10^{-3}

45.668 = 4.5668×10^1

998,653 = 9.98653×10^2

0.0000056388 =
 5.6388×10^{-6}

63,000,000 = 6.3×10^7

0.0602 = 6.02×10^{-2}

22,078,600 = 2.20786×10^7

0.000070005 = 7.0005×10^{-5}

64.3 = 6.43×10^1

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 **e·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

Homework

Finish classwork