

## Warm Up

Before starting the Warm Up, please take out your most recent test.

James currently has an 88% average after taking 4 math assessments.  $88 \cdot 4 = 352$  total pts.

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

$$\begin{array}{r} 540 \\ - 352 \\ \hline \end{array}$$

188

needs to get 188 points total between the 2 tests.

94 and 94

96 and 92

100 and 88

90 and 98

89 and 99

If she got an 87% on one test, could she still get a 90% average?

Only if there is a bonus question she would need 87 and 101

# Homework Questions?

## Extra Practice

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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

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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 =  $6.43 \times 10^1$

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

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

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

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

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

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

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