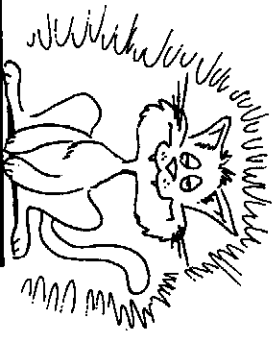


What Is Special About a Radioactive Cat?

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. **T·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. $0.000000000375 = 3.75 \times 10^n$ **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. 0.000000000419 **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. 0.2222×10^8 **t·F** 2.222×10^4 **c·S** 2.222×10^9
 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
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