

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.

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|-----------------|-----------------------|--------------|--------------------|--------------|----------------------|
| 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} |



Name _____

Date _____

Per _____

A# _____

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

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|--|--------------|-----|--------------|-----|
| 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.

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|---------------------------|--------------|-------------|--------------|--------------|
| 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.

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|-----------------------|--------------|------------------------|--------------|------------------------|
| 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.

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|---------------------------|--------------|-----------------------|--------------|-----------------------|
| 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
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