Name:

Date: _____

If 0.000023 is expressed in the form 2.3×10^n , what is the value of n?

If 0.00037 is expressed as 3.7×10^n , what is the value of n?

What is the product of (6×10^3) , (4.6×10^5) , and (2×10^{-2}) expressed in scientific notation?

- A. 55.2×10^6
- B. 5.52×10^7
- C. 55.2×10^7
- D. 5.52×10^{10}

The quotient of (9.2×10^6) and (2.3×10^2) expressed in scientific notation is

- A. 4,000
- B. 40,000
- C. 4×10^3
- D. 4×10^4

What is the product of 8.4×10^8 and 4.2×10^3 written in scientific notation?

- A. 2.0×10^5
- B. 12.6×10^{11}
- C. 35.28×10^{11}
- D. 3.528×10^{12}

If 198,000,000 is written in the form 1.98×10^{n} , 6. what is the value of n?

What is the product of 12 and 4.2×10^6 expressed 7. in scientific notation?

- A. 50.4×10^6
- B. 50.4×10^7
- C. 5.04×10^6
- D. 5.04×10^7

Which number is equal to 3.6×10^5 ?

- A. 360,000
- B. 3,600,000
- C. 0.000036
- D. 0.0000036

Which expression represents the number 0.00017 written in scientific notation?

- A. 1.7×10^{-4} B. 1.7×10^4
- C. 1.7×10^{-3}
- D. 1.7×10^3

10. If 340,000 is expressed in the form 3.4×10^n , what is the value of n?

11. Which value for n makes this sentence true?

$$0.00045 = 4.5 \times 10^n$$

12. If the number 172,000,000 is expressed in the form 1.72×10^n , what is the value of n?

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- 13. If 0.0000055 is expressed in the form 5.5×10^n , what is the value of n?
 - A. 5
- B. 6
- C. -5
- D. -6
- 14. If the number 36,000,000 is written in scientific notation, the numerical value of the exponent is
 - A. 6
- В. -6
- C. 7
- D. -7
- 15. Written in standard notation, 7.2×10^3 is equivalent to
 - A. 0.0072
- B. 0.00072
- C. 7,200
- D. 72,000
- 16. In scientific notation, 54,000,000 is expressed as
 - A. 5.4×10^{-7}
- B. 54×10^7
- C. 54×10^6
- D. 5.4×10^7
- 17. Expressed in decimal form, the number 1.23×10^{-3} is
 - A. 1230
- B. 0.000123
- C. 0.00123
- D. 123,000

- 18. Express in simplest form: $\frac{(2 \times 10^3)(3 \times 10^2)}{(6 \times 10^{-1})(1 \times 10^6)}$
- 19. If the fraction $\frac{123}{10,000}$ is expressed in the form 1.23×10^n , the value of n is
 - A. -1
- B. -2
- C. -3
- D. -4
- 20. In scientific notation, the number $\frac{9}{1,000,000}$ is written as
 - A. 9.0×10^{-6}
- B. 9.0×10^{-7}
- C. 9.0×10^6
- D. 9.0×10^7
- 21. If $7.289 \times 10^n = 0.007289$, what is the value of *n*?
 - A. -2
- B. 2
- C. 3
- D. -3
- 22. Expressed in decimal notation, 4.726×10^{-3} is
 - A. 0.004726
- B. 0.04726
- C. 472.6
- D. 4,726

- 23. The distance from Earth to the Sun is approximately 93 million miles. A scientist would write that number as
 - A. 9.3×10^6
- B. 9.3×10^7
- C. 93×10^7
- D. 93×10^{10}
- 24. What is the value of $\frac{6.3 \times 10^8}{3 \times 10^4}$ in scientific notation?
 - A. 2.1×10^{-2}
- B. 2.1×10^2
- C. 2.1×10^{-4}
- D. 2.1×10^4
- 25. If the mass of a proton is 1.67×10^{-24} gram, what is the mass of 1,000 protons?
 - A. 1.67×10^{-27} g B. 1.67×10^{-23} g
- - C. 1.67×10^{-22} g D. 1.67×10^{-21} g
- 26. A micron is a unit used to measure specimens viewed with a microscope. One micron is equivalent to 0.00003937 inch. How is this number expressed in scientific notation?
 - A. 3.937×10^{-5}
- B. 3.937×10^5
- C. 3937×10^{-8}
- D. 3937×10^8

- 27. According to the 2000 census, the population of New York State was approximately 18,900,000. How is this number expressed in scientific notation?
 - A. 1890×10^4
- B. 18.9×10^6
- C. 1.89×10^7
- D. 189×10^5
- 28. The video of the movie Star Wars earned \$193,500,000 in rental fees during its first year. Expressed in scientific notation, the number of dollars earned is
 - A. 1935×10^8
- B. 193.5×10^6
- C. 1.935×10^6
- D. 1.935×10^8
- 29. Expressed in scientific notation, the number 4,600,000,000 is
 - A. 4.6×10^{-8}
- B. 4.6×10^{-9}
- C. 4.6×10^9
- D. 0.46×10^{10}
- 30. What is the value of n if the number 0.0000082 is written in the form 8.2×10^{n} ?
- B. 5 C. -5 D. 6

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| | | omt 3. St | orentine rotation | 01/22/2013 |
|----------------|----|-----------|-------------------|------------|
| 1. Answer: | -5 | | 21. Ans | wer: D |
| 2. Answer: | -4 | | 22. Ans | wer: A |
| 3. Answer: | В | | 23. Ansv | wer: B |
| 4. Answer: | D | | 24. Ansv | wer: D |
| 5. Answer: | D | | 25. Ansv | wer: D |
| 6. Answer: | 8 | | 26. Ans | wer: A |
| 7. Answer: | D | | 27. Ans | wer: C |
| 8. Answer: | A | | 28. Ansv | wer: D |
| 9. Answer: | A | | 29. Ans | |
| 10. Answer: | 5 | | 30. Ans | |
| 11. Answer: | -4 | | | |
| 12. Answer: | 8 | | | |
| 13. Answer: | D | | | |
| 14. Answer: | C | | | |
| 15. Answer: | C | | | |
| 16. Answer: | D | | | |
| 17. Answer: | C | | | |
| 18. Answer: | 1 | | | |
| 19. Answer: | В | | | |
| 20. Answer: | A | | | |