



Unleashing Innovation Through STEM Education

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Lesson: Scientific Notation – Middle School

Name:

Teacher:

Date:

1. Simplify and express the answer in scientific notation: $(4 \times 10^1)(13 \times 10^5)$.

a) 5.2×10^6

b) 0.52×10^8

c) 5.2×10^7

d) 52×10^6

2. Simplify and express the answer in scientific notation: $\frac{27 \times 10^4}{10 \times 10^8}$.

a) 0.27×10^{-3}

b) 27×10^{-5}

c) 2.7×10^{-5}

d) 2.7×10^{-4}

3. Simplify and express the answer in scientific notation: $(6 \times 10^{-5})(2 \times 10^{-9})$.

a) 0.12×10^{-12}

b) 1.2×10^{-14}

c) 1.2×10^{-13}

d) 12×10^{-14}



4.

Simplify and express the answer in scientific notation: $\frac{17 \times 10^3}{8 \times 10^7}$.

a) 2.125×10^{-4}

b) 2.125×10^{-5}

c) 0.2125×10^{-3}

d) 21.25×10^{-5}

5.

Simplify and express the answer in scientific notation: $\frac{15 \times 10^{-6}}{8 \times 10^4}$.

a) 0.1875×10^{-9}

b) 1.875×10^{-9}

c) 1.875×10^{-10}

d) 18.75×10^{-11}

6.

Simplify and express the answer in scientific notation: $(7 \times 10^{-2})(6 \times 10^{-7})$.

a) 4.2×10^{-9}

b) 4.2×10^{-8}

c) 42×10^{-9}

d) 0.42×10^{-7}

7.

Simplify and express the answer in scientific notation: $(5 \times 10^3)(15 \times 10^{-9})$.

a) 75×10^{-6}

b) 0.75×10^{-4}

c) 7.5×10^{-6}

d) 7.5×10^{-5}



Simplify and express the answer in scientific notation: $\frac{28 \times 10^9}{5 \times 10^5}$.

b) 5.6×10^4

d) 5.6×10^3

Simplify and express the answer in scientific notation: $(7 \times 10^6)(12 \times 10^2)$.

b) 84×10^8

d) 8.4×10^9

Simplify and express the answer in scientific notation: $\frac{15 \times 10^5}{6 \times 10^1}$.

b) 25×10^3

d) 2.5×10^4

Simplify and express the answer in scientific notation: $(2 \times 10^{-6})(4 \times 10^{-2})$.

b) 80×10^{-9}

d) 0.8×10^{-7}



12.

Simplify and express the answer in scientific notation: $\frac{14 \times 10^5}{4 \times 10^2}$.

a) 35×10^2

b) 3.5×10^3

c) 3.5×10^2

d) 0.35×10^4

13.

Simplify and express the answer in scientific notation: $\frac{16 \times 10^{-9}}{5 \times 10^6}$.

a) 3.2×10^{-15}

b) 3.2×10^{-14}

c) 32×10^{-16}

d) 0.32×10^{-14}

14.

Simplify and express the answer in scientific notation: $(9 \times 10^{-4})(3 \times 10^{-1})$.

a) 2.7×10^{-4}

b) 27×10^{-5}

c) 0.27×10^{-3}

d) 2.7×10^{-5}

15.

Simplify and express the answer in scientific notation: $(11 \times 10^2)(7 \times 10^{-1})$.

a) 7.7×10^2

b) 77×10^1

c) 0.77×10^3

d) 7.7×10^1



16.

Simplify and express the answer in scientific notation: $\frac{25 \times 10^6}{2 \times 10^3}$.

a) 1.25×10^3

b) 0.125×10^5

c) 12.5×10^3

d) 1.25×10^4

17.

Simplify and express the answer in scientific notation: $(6 \times 10^6)(6 \times 10^2)$.

a) 0.36×10^{10}

b) 3.6×10^8

c) 36×10^8

d) 3.6×10^9

18.

Simplify and express the answer in scientific notation: $\frac{11 \times 10^1}{8 \times 10^5}$.

a) 1.375×10^{-4}

b) 0.1375×10^{-3}

c) 1.375×10^{-5}

d) 13.75×10^{-5}



Answer Keys

1. c) 5.2×10^7

2. d) 2.7×10^{-4}

3. c) 1.2×10^{-13}

4. a) 2.125×10^{-4}

5. c) 1.875×10^{-10}

6. b) 4.2×10^{-8}

7. d) 7.5×10^{-5}

8. b) 5.6×10^4

9. d) 8.4×10^9

10. d) 2.5×10^4

11. c) 8×10^{-8}

12. b) 3.5×10^3

13. a) 3.2×10^{-15}

14. a) 2.7×10^{-4}

15. a) 7.7×10^2

16. d) 1.25×10^4

17. d) 3.6×10^9

18. a) 1.375×10^{-4}