



Scientific Notation - Multiplication and Division - Advanced

1 Multiply these numbers

$$100 \times 100$$

A 100	B 10,000
C 100,000	

2 Multiply these numbers

$$2,000 \times 400$$

A 80,000,000	B 8,000
C 80,000	D 8,000,000
E 800,000	

3 Solve the equation by multiplying powers of ten

$$10^0 \times 10^2$$

A 10^{-1}	B 10^3
C 10^2	D 10^0
E 10^1	F 10^4

4 Solve the equation by multiplying numbers that are almost in scientific notation

$$(3 \times 100) \times (3 \times 10,000)$$

A $9 \times 10,000$
B $9 \times 1,000,000$
C $9 \times 10,000,000$
D $9 \times 100,000,000$

5 Solve the equation by multiplying numbers that are almost in scientific notation

$$(1 \times 1,000) \times (1 \times 10,000)$$

A $1 \times 100,000,000$
B $1 \times 1,000,000,000$
C $1 \times 10,000,000$
D $1 \times 10,000$

6 Solve the equation by multiplying scientific notation numbers

$$(1 \times 10^3) \times (5 \times 10^2)$$

A 5.0×10^6	B 5.0×10^3
C 5.0×10^5	D 1.5×10^8
E 1.5×10^6	F 2.0×10^7

7 Solve the equation by multiplying scientific notation numbers

$$(2 \times 10^3) \times (1 \times 10^4)$$

A 6.0×10^9	B 2.0×10^6
C 2.0×10^4	D 8.0×10^8
E 2.0×10^7	F 8.0×10^5

8 Solve the equation by multiplying scientific notation numbers

$$(3 \times 10^0) \times (6 \times 10^2)$$

A 5.4×10^1	B 1.8×10^4
C 7.2×10^1	D 5.4×10^4
E 1.8×10^5	F 1.8×10^3



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- 9** Solve the equation by multiplying scientific notation numbers

$$(3.4 \times 10^0) \times (2.3 \times 10^1)$$

A	3.13×10^0	B	7.82×10^{-2}
C	2.35×10^{-1}	D	7.82×10^2
E	7.82×10^1	F	2.35×10^0

- 10** Solve the equation by multiplying scientific notation numbers

$$(3.6 \times 10^3) \times (1.7 \times 10^3)$$

A	1.84×10^9	B	6.12×10^6
C	1.84×10^6	D	6.12×10^5
E	2.45×10^3	F	6.12×10^8

- 11** Solve the equation by multiplying scientific notation numbers

$$9 \times 6$$

A	2.2×10^0	B	1.6×10^1
C	1.6×10^3	D	2.2×10^3
E	5.4×10^1	F	2.2×10^2

- 12** Solve the equation by multiplying scientific notation numbers

$$7.8 \times 6.3$$

A	4.91×10^2	B	1.97×10^1
C	1.97×10^2	D	4.91×10^0
E	4.91×10^1	F	1.47×10^3

- 13** Multiply these numbers

$$0.01 \times 0.001$$

A	0.001	B	0.0001
C	0.00001		

- 14** Multiply these numbers

$$2 \times 0.0002$$

A	0.0004	B	0.004
C	0.04	D	0

- 15** Solve the equation by multiplying powers of ten

$$10^{-3} \times 10^0$$

A	10^{-6}	B	10^{-2}
C	10^{-5}	D	10^{-3}
E	10^{-4}	F	10^{-1}

- 16** Solve the equation by multiplying numbers that are almost in scientific notation

$$(1 \times 0.01) \times (6 \times 0.0001)$$

A	6×0.0001
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- 17** Solve the equation by multiplying numbers that are almost in scientific notation

$$(6 \times 0.001) \times (1 \times 0.0001)$$

- 18** Solve the equation by multiplying scientific notation numbers

$$(5 \times 10^{-3}) \times (1 \times 10^{-2})$$

A 2.0×10^{-4}	B 5.0×10^{-6}
C 5.0×10^{-4}	D 2.0×10^{-5}
E 5.0×10^{-5}	F 2.0×10^{-2}

- 19** Solve the equation by multiplying scientific notation numbers

$$(7 \times 10^{-3}) \times (1 \times 10^{-5})$$

A 2.1×10^{-8}	B 7.0×10^{-10}
C 2.1×10^{-5}	D 2.8×10^{-11}
E 2.1×10^{-7}	F 7.0×10^{-8}

- 20** Solve the equation by multiplying scientific notation numbers

$$(5 \times 10^0) \times (5 \times 10^{-4})$$

A 1.0×10^{-3}	B 1.0×10^{-5}
C 1.0×10^{-4}	D 2.5×10^{-3}
E 1.0×10^{-2}	F 7.5×10^{-6}

- 21** Solve the equation by multiplying scientific notation numbers

$$(4.7 \times 10^0) \times (1.3 \times 10^{-1})$$

A 1.83×10^1	B 2.44×10^1
C 1.83×10^2	D 1.83×10^0
E 6.11×10^{-1}	F 2.44×10^2

- 22** Solve the equation by multiplying scientific notation numbers

$$(4.3 \times 10^{-2}) \times (2.3 \times 10^{-4})$$

A 3.96×10^{-3}	B 3.96×10^{-5}
C 2.97×10^{-3}	D 3.96×10^{-9}
E 9.89×10^{-6}	F 9.89×10^{-4}

- 23** Divide these numbers

$$10,000,000 / 10,000$$

A 10	B 0	C 840
D 100	E 1,000	F 1,140

- 24** Divide these numbers

$$80,000 / 4$$

A 20,000	B 20,200
C 2,000	D 200,000
E 2,000,000	F 18,600



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25 Solve the equation by dividing powers of ten

$$\frac{10^3}{10^2}$$

A 10^{-1}	B 10^3
C 10^0	D 10^1
E 10^2	F 10^{-2}

26 Solve the equation by dividing numbers that are almost in scientific notation

$$\frac{(5 \times 1,000,000)}{(1 \times 10,000)}$$

A 5×1	B $5 \times 1,000$
C 5×0.1	D $5 \times 10,000$
E 5×10	F 5×100

27 Solve the equation by dividing numbers that are almost in scientific notation

$$\frac{(7 \times 1,000,000,000)}{(7 \times 100,000)}$$

A $1 \times 10,000$	B 1×100
C 1×10	D $1 \times 100,000$
E $1 \times 1,000$	F $1 \times 1,000,000$

28 Solve the equation by dividing scientific notation numbers

$$\frac{(4 \times 10^6)}{(2 \times 10^3)}$$

A 6×10^0	B 6×10^5
C 2×10^4	D 8×10^{-1}
E 2×10^3	F 2×10^0

29 Solve the equation by dividing scientific notation numbers

$$\frac{(8 \times 10^7)}{(4 \times 10^4)}$$

A 6×10^1	B 2×10^0
C 6×10^0	D 6×10^{-1}
E 2×10^3	F 6×10^3

30 Solve the equation by dividing scientific notation numbers

$$\frac{(1.8 \times 10^6)}{(3 \times 10^3)}$$

A 6×10^0	B 1.8×10^3
C 2.4×10^0	D 6×10^2
E 1.8×10^4	F 1.8×10^1

31 Solve the equation by dividing scientific notation numbers

$$\frac{(8.96 \times 10^4)}{(1.6 \times 10^2)}$$

A 5.6×10^2	B 1.68×10^{-1}
C 5.6×10^3	D 2.24×10^1
E 2.24×10^5	F 1.68×10^4

32 Solve the equation by dividing scientific notation numbers

$$\frac{(7.68 \times 10^7)}{(2.4 \times 10^3)}$$

A 1.28×10^4	B 3.2×10^1
C 1.28×10^2	D 3.2×10^2
E 1.28×10^5	F 3.2×10^4



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33 Divide these numbers

$$0.0000001 / 0.00001$$

A	1	B	0.01
C	-2,000	D	100,000.01
E	-199,999.99	F	0

34 Divide these numbers

$$0.0006 / 3$$

A	0	B	33.3533
C	0.002	D	-3.3313
E	0.02	F	0.0002

35 Solve the equation by dividing powers of ten

$$\frac{10^{-5}}{10^0}$$

A	10^{-8}	B	10^{-3}
C	10^{-5}	D	10^{-4}
E	10^{-7}	F	10^{-6}

36 Solve the equation by dividing powers of ten

$$\frac{10^{-11}}{10^{-5}}$$

A	10^{-4}	B	10^{-5}
C	10^{-9}	D	10^{-7}
E	10^{-8}	F	10^{-6}

37 Solve the equation by dividing numbers that are almost in scientific notation

A	5×0.01
B	5×0.0001
C	5×0.001

38 Solve the equation by dividing numbers that are almost in scientific notation

A	3×0.0001
B	3×0.01
C	3×0.1
D	3×0.001

39 Solve the equation by dividing scientific notation numbers

$$\frac{(6 \times 10^{-7})}{(2 \times 10^{-4})}$$

A	9×10^{-1}	B	1.2×10^{-4}
C	1.2×10^{-3}	D	9×10^{-6}
E	3×10^{-3}	F	3×10^{-6}

40 Solve the equation by dividing scientific notation numbers

$$\frac{(4 \times 10^{-8})}{(1 \times 10^{-5})}$$

A	1.6×10^{-3}	B	4×10^{-3}
C	1.6×10^{-4}	D	4×10^{-2}
E	1.6×10^{-5}	F	1.6×10^0