

Simplify each expression. Express answers in proper scientific notation.

Name: _____

Date: _____ Score: _____ / _____

1.

$$(5 \times 10^{\blacksquare} \times 8 \times 10^{\blacksquare}) \div 8$$

Answer: _____

2.

$$(4 \times 10^3 \times 5 \times 10^{\blacksquare^2}) \div 4$$

Answer: _____

3.

$$(5 \times 10^2 \times 3 \times 10^{\blacksquare^3}) \div 15$$

Answer: _____

4.

$$(5 \times 10^{\blacksquare} \times 7 \times 10^1) \div 5$$

Answer: _____

5.

$$(7 \times 10^{\blacksquare} \times 4 \times 10^{\blacksquare^3}) \div 2$$

Answer: _____

6.

$$(5 \times 10^{\blacksquare}) \times (7 \times 10^{\blacksquare^2}) \div (7 \times 10^{\blacksquare^2})$$

Answer: _____

7.

$$\frac{7 \times 10^3 \times 7 \times 10^{\blacksquare^2}}{7 \times 10^3}$$

Answer: _____

8.

$$\frac{9 \times 10^{\blacksquare} \times 7 \times 10^{\blacksquare^2}}{3 \times 10^2}$$

Answer: _____

9.

$$\frac{9 \times 10^{\blacksquare} \times 3 \times 10^1}{9 \times 10^2}$$

Answer: _____

10.

$$(6 \times 10^3 \times 4 \times 10^1) \div 8$$

Answer: _____

Simplify each expression. Express answers in proper scientific notation.

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11.

$$(2 \times 10^{\blacksquare} \times 2 \times 10^{\blacksquare}) \div 4$$

Answer: _____

12.

$$\frac{3 \times 10^{\blacksquare} \times 6 \times 10^{\blacksquare}}{3 \times 10^3}$$

Answer: _____

For teacher use only

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1.

$$(5 \times 10^{\blacksquare} \times 8 \times 10^{\blacksquare}) \div 8 = 5 \times 10^{\blacksquare}$$

2.

$$(4 \times 10^3 \times 5 \times 10^{\blacksquare 2}) \div 4 = 5 \times 10^1$$

3.

$$(5 \times 10^2 \times 3 \times 10^{\blacksquare 3}) \div 15 = 1 \times 10^{\blacksquare 1}$$

4.

$$(5 \times 10^{\blacksquare} \times 7 \times 10^1) \div 5 = 7 \times 10^{\blacksquare}$$

5.

$$(7 \times 10^{\blacksquare} \times 4 \times 10^{\blacksquare 3}) \div 2 = 1.4 \times 10^{\blacksquare}$$

6.

$$(5 \times 10^{\blacksquare}) \times (7 \times 10^{\blacksquare 2}) \div (7 \times 10^{\blacksquare 2}) = 5 \times 10^{\blacksquare}$$

7.

$$\frac{7 \times 10^3 \times 7 \times 10^{\blacksquare 2}}{7 \times 10^3} = 7 \times 10^{\blacksquare 2}$$

8.

$$\frac{9 \times 10^{\blacksquare} \times 7 \times 10^{\blacksquare 2}}{3 \times 10^2} = 2.1 \times 10^1$$

9.

$$\frac{9 \times 10^{\blacksquare} \times 3 \times 10^1}{9 \times 10^2} = 3 \times 10^{\blacksquare}$$

10.

$$(6 \times 10^3 \times 4 \times 10^1) \div 8 = 3 \times 10^{\blacksquare}$$

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11.

$$(2 \times 10^4 \times 2 \times 10^4) \div 4 = 1 \times 10^8$$

12.

$$\frac{3 \times 10^4 \times 6 \times 10^4}{3 \times 10^3} = 6 \times 10^5$$