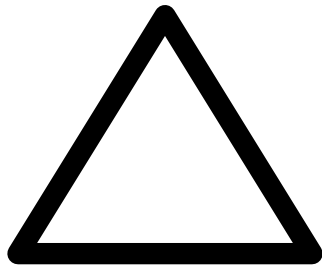## Problem

Simplify: $x^8 \cdot x^2$

Incorrect Work/Answer

$$x^8 \cdot x^2$$

$$= x^{16}$$
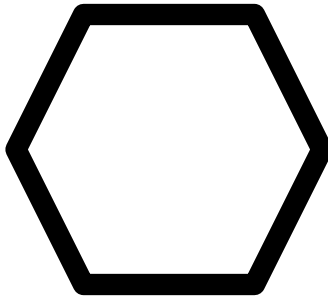
Problem

Simplify: $\left(3x^2\right)^4$

Incorrect Work/Answer

$$\left(3x^2\right)^4$$

$$= 12x^8$$

Problem

Simplify: $\dfrac{10x^7}{5x^4}$

Incorrect Work/Answer

$$\dfrac{10x^7}{5x^4}$$

$$= 5x^3$$
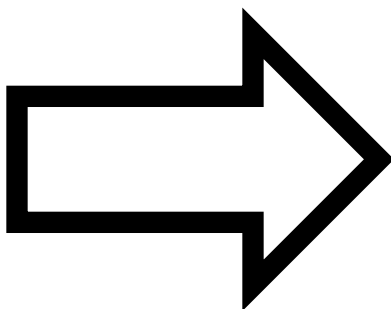
Problem

Simplify: $x^4 \cdot y^4$

Incorrect Work/Answer

$$x^4 \cdot y^4$$
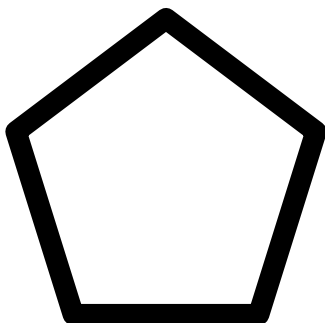
$$= xy^8$$

Problem

Simplify: -2^6

Incorrect Work/Answer

$$-2^6$$

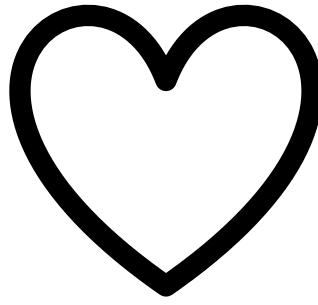$$= -2 \cdot -2 \cdot -2 \cdot -2 \cdot -2 \cdot -2$$

$$= 64$$

Problem

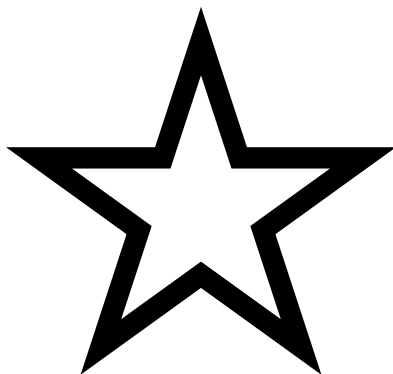**Simplify: 5^{-3}**

Incorrect Work/Answer

$$5^{-3}$$

$$= -125$$

Problem

Simplify: $\left(xy^{10}\right)^3$

Incorrect Work/Answer

$$\left(xy^{10}\right)^3$$

$$= xy^{30}$$

Problem

Simplify: 3^{-4}

Incorrect Work/Answer

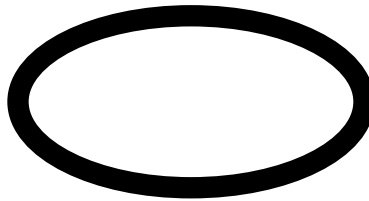$$3^{-4}$$

$$3.$$

$$= .0003$$
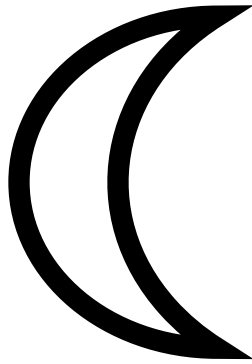
Problem

Simplify: $10p^{-5}$

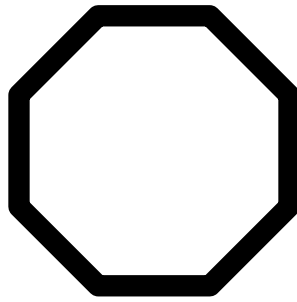## Incorrect Work/Answer

$$\frac{1}{10p^5}$$

Problem

Write in standard notation: $\dfrac{a^7 b^5}{a^5 b^7}$
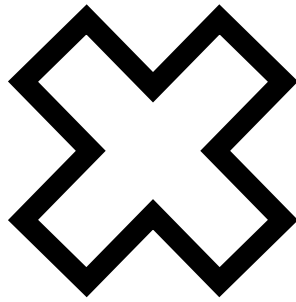
Incorrect Work/Answer

$$a^2 b^2$$

Problem

Add: $(2.5 \times 10^4) + (1.2 \times 10^2)$

Incorrect Work/Answer

$$(2.5 \times 10^4) + (1.2 \times 10^2)$$

$$= 3.7 \times 10^6$$

Problem

Write in scientific notation: 7.2×10^3

Incorrect Work/Answer

7.2×10^3

$= 72000$
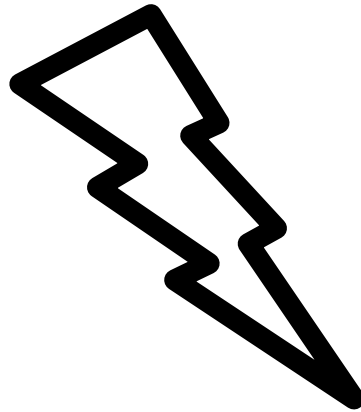
Problem

Divide: $\dfrac{6 \times 10^7}{1.5 \times 10^{-2}}$

Incorrect Work/Answer

$$\frac{6 \times 10^7}{1.5 \times 10^{-2}}$$

$$= 4 \times 10^5$$
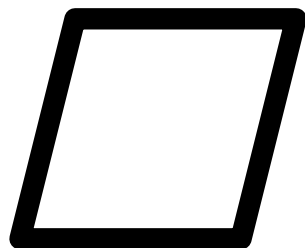
Problem

Write in standard notation: 6×10^{-2}

Incorrect Work/Answer

$$6 \times 10^{-2}$$

$$= .006$$