

## A Brief Math/Algebra Review Answers

1. Solve  $F = ma$  for a:

$$a = F/m$$

2. Solve  $z = 2x/9$  for x:

$$x = 9z/2$$

3. Solve  $y = 3x + 2$  for x:

$$x = y/3 - 2/3 = (y - 2)/3$$

4. Solve  $a = 3m - 7r$  for m:

$$m = a/3 + 7r/3 = (a + 7r)/3$$

5. Solve  $y = 4x^2/3$  for x:

$$x = \sqrt{\frac{3y}{4}} = \frac{\sqrt{3y}}{2}$$

6. Solve  $t^2 = 5y^2 + 7$  for y:

$$y = \sqrt{\frac{t^2 - 7}{5}}$$

Scientific Notation:

- A.  $10^3$  is equal to

**d. 1000**

- B.  $2.3 \times 10^{-4}$  is equal to

**c. 0.00023**

- C.  $10 \times 10^3$  is equal to

**b.  $10^4$**

- D. Which is a larger number:

**a.  $5 \times 10^{23}$**

- E. Write 6,340,000,000 in scientific notation.

$$6.34 \times 10^9$$

- F. Write 0.00000435 in scientific notation.

$$4.35 \times 10^{-6}$$