





Write the missing number and power so that these numbers are written in standard form.

a) 
$$0.0004 = 4 \times 10^{-4}$$

**b)** 
$$0.7 = \boxed{7} \times 10^{\boxed{-1}}$$

c) 
$$0.000\ 002 = \boxed{2} \times 10^{\boxed{-6}}$$

Write these as ordinary numbers.

**b)** 
$$5 \times 10^{-8} = 0.00000005$$

c) 
$$6 \times 10^{-3} = 0.006$$

**d)** 
$$5 \times 10^{-1} = 0.5$$

Write these numbers in standard form.

a) 
$$0.0009 = 9 \times 10^{-4}$$

**b)** 
$$0.000\ 003 = 3 \times 10^{-6}$$

c) five tenths = 
$$5 \times 10^{-1}$$

d) two hundredths = 
$$\frac{2 \times 10^{-2}}{}$$

e) 
$$6 \div 100,000 = 6 \times 10^{-5}$$

f) 
$$0.000\ 004 \times 100 = 4 \times 10^{-4}$$

g) 
$$0.02^3 = 8 \times 6$$

h) nine billionths = 
$$9 \times 10^{-9}$$

What is the same and what is different about each set of numbers?

c)

Solve the equations.

Give your answers in standard form.

**a)** 
$$100g = 9$$

$$g = \frac{9 \times 10^{-2}}{}$$

**b)** 
$$4 = 10,000b$$

$$b = 4 \times 10^{-4}$$

c) 
$$6 = 2,000p$$

$$p = 3 \times 10^{-3}$$

Circle the number that lies between  $4 \times 10^{-4}$  and  $3 \times 10^{-4}$ 

0.00038

0.038

0.0038

7 Find the next three terms in the sequence.

Write the terms in standard form.

$$2 \times 10^{-1}$$
, 0.03,  $4 \times 10^{-3}$ ,  $5 \times 10^{-4}$ ,  $6 \times 10^{-5}$ ,  $7 \times 10^{-6}$ 

8

$$a = 2b + c$$

Find the value of a if  $b = 5 \times 10^{-2}$  and  $c = 2 \times 10^{-1}$ 

Write your answer in standard form.

3×10-1

A printer's paper tray is 5 cm deep.

One sheet of paper is  $8 \times 10^{-3}$  cm thick.

What is the maximum number of sheets of paper that can fit in the tray?



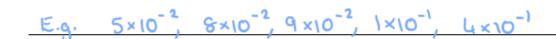
625

Five numbers have a median of  $9 \times 10^{-2}$ 

The range of the numbers is 0.35

One of the numbers is 0.1

Write the 5 numbers.



Is it possible to find more than one solution?