

①

$$d = r t$$

$$\frac{5 \times 10^3}{8 \times 10^{-8}} = \frac{r (8 \times 10^{-8})}{8 \times 10^{-8}}$$

$$0.625 \times 10^{11}$$

$$6.25 \times 10^{10} \text{ mi/h}$$

$$\begin{array}{r} 0.625 \\ 8 \overline{) 5.000} \\ \underline{-48} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$3 + (-8)$$

$$\textcircled{2} \quad r = 4a$$

$$\frac{6.7 \times 10^4}{4} = \frac{4a}{4}$$

$$1.675 \times 10^4 = a$$

$$\textcircled{1.675 \times 10^4 \text{ stamps}}$$

16750

$$\begin{array}{r} 1.675 \\ \hline 4 \overline{) 6.700} \\ \underline{-4} \downarrow \\ 27 \\ \underline{-24} \downarrow \\ 30 \\ \underline{-28} \downarrow \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

③

$$\frac{7.6 \times 10^{12}}{8}$$

$$0.95 \times 10^{12}$$

$$9.5 \times 10^{11}$$

$$\begin{array}{r} 0.95 \\ 8 \overline{) 7.60} \\ \underline{-72} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

Scavenger Hunt



1) The expression 4×10^7 is how many times larger than 5×10^4 ? 8×10^2 times larger

2) A scientific formula states that density=mass/volume ($d=m/V$). A
2.346

$\times 10^4$ kg object has a volume of $5.1 \times 10^9 \text{ m}^3$. What is the density in
 kg/m^3 ? $4.6 \times 10^{-6} \text{ kg}/\text{m}^3$

3) What is the product of 4.62 and 3.08×10^{-4} ?

* 1.42296×10^{-3}

$$4.62(3.08 \times 10^{-4})$$

$$14.2296 \times 10^{-4}$$

$$1.42296 \times 10^{-3}$$

4) The mass of 8×10^{12} particles is 5.7×10^{-5} g. What is the mass of each particle?
 7.125×10^{-18} g

5) The Shanghai Maglev Train can go 2.68×10^2 mi/h. How far would it go if it traveled at that speed for 5 hours? 1.34×10^3 mi

$$d = r t$$
$$d = (2.68 \times 10^2)(5)$$
$$13.4 \times 10^2$$
$$1.34 \times 10^3 \text{ mi}$$
$$\begin{array}{r} 3 \quad 4 \\ 268 \\ \times \quad 5 \\ \hline 1340 \end{array}$$

6) Over the last 3 years, a computer company has produced 1.875×10^7 computers. On average, how many did they produce each year? 6.25×10^6 computers

7) The current land speed record is about 4×10^2 mi/h. How long would it take that vehicle to travel 2.6×10^4 mi? 6.5×10^1 h

8) Wayne has 4.3×10^7 dollars. Garth has 6.2×10^3 times as much money. How much does Garth have? 2.666×10^{11} dollars.

