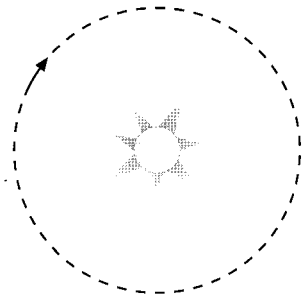
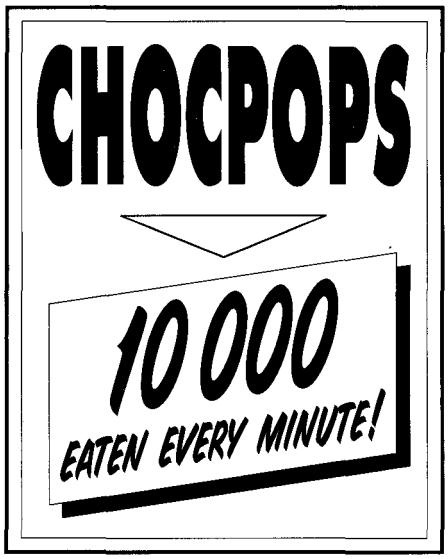
Scientific Notation

2006 P2	**1.** The orbit of a planet around a star is circular.  The radius of the orbit is $4{\cdot}96 \times 10^{'}$ kilometres. Calculate the circumference of the orbit. Give your answer **in scientific notation**.	3	
Ans	$3.12 \times 10^{8}\, km$		
2005 P2	**1.** $E = mc^2$. Find the value of E when $m = 3{\cdot}6 \times 10^{-2}$ and $c = 3 \times 10^{8}$. Give your answer **in scientific notation**.	3	
Ans	3.24×10^{15}		
2004 P2	**1.** Radio signals travel at a speed of 3×10^{8} metres per second. A radio signal from Earth to a space probe takes 8 hours. What is the distance from Earth to the probe? Give your answer **in scientific notation**.	4	
Ans	$8{\cdot}64 \times 10^{12}$		
2002 P2	**1.** A spider weighs approximately $19{\cdot}06 \times 10^{-5}$ kilograms. A humming bird is 18 times heavier. Calculate the weight of the humming bird. Give your answer **in scientific notation**.	2	
Ans	$3{\cdot}43 \times 10^{-3}$ kg		

2001 P2	**1.**  How many chocpops will be eaten in the year 2001? Give your answer in **scientific notation**.	2	
Ans	$5{\cdot}256 \times 10^{9}$		
2000 P2	**2.** The mass of water on the earth's surface is $1{\cdot}41 \times 10^{18}$ tonnes. The total mass of the earth is $5{\cdot}97 \times 10^{21}$ tonnes. Express the mass of water on the earth's surface as a percentage of the total mass of the earth. Give your answer in **scientific notation**.	3	
Ans	$0{\cdot}0236 = 2{\cdot}36 \times 10^{-2}$		