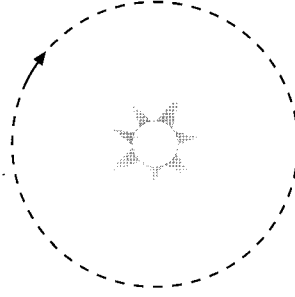


Scientific Notation

2006 P2	<p>1. The orbit of a planet around a star is circular.</p>  <p>The radius of the orbit is 4.96×10^7 kilometres. Calculate the circumference of the orbit. Give your answer in scientific notation.</p>	3
Ans	$3.12 \times 10^8 \text{ km}$	
2005 P2	<p>1. $E = mc^2$.</p> <p>Find the value of E when $m = 3.6 \times 10^{-2}$ and $c = 3 \times 10^8$. Give your answer in scientific notation.</p>	3
Ans	3.24×10^{15}	
2004 P2	<p>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.</p>	4
Ans	8.64×10^{12}	
2002 P2	<p>1. A spider weighs approximately 19.06×10^{-5} kilograms. A humming bird is 18 times heavier. Calculate the weight of the humming bird. Give your answer in scientific notation.</p>	2
Ans	$3.43 \times 10^{-3} \text{ kg}$	

2001 P2	<p>1.</p> <div data-bbox="591 191 1026 737" style="text-align: center;"> <p>CHOCPOPS</p> <p>10 000 EATEN EVERY MINUTE!</p> </div> <p>How many chocpops will be eaten in the year 2001? Give your answer in scientific notation.</p>	2	
Ans	5.256×10^9		
2000 P2	<p>2. The mass of water on the earth's surface is 1.41×10^{18} tonnes. The total mass of the earth is 5.97×10^{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.</p>	3	
Ans	$0.0236 = 2.36 \times 10^{-2}$		