1. $8 \times 4.80 \times 10^8 = 3.84 \times 10^9$

2. $7.1 \times 10^7 \div 300 = 2.4 \times 10^5$

3. Time = Distance ÷ Speed
   Time = $2.3 \times 10^8 \div 3.0 \times 10^5$
   Time = 766.67 sec = 13 minutes.

4. Distance = circumference = $2\pi r$
   Distance = $2\pi \times 0.6 \times 10^7$
   Speed = Distance ÷ Time
   Time = $88 \times 24 = 2112$ hours
   Speed = $2\pi \times 0.6 \times 10^7 \div 2112$
   Speed = 17 849. 95... = 18 000 kph (2 sf)

5. $1.8 \times 10^3 \times 9.11 \times 10^{-31} = 1.6398 \times 10^{-27}$
   $= 1.6 \times 10^{-27}$ kg (2 sf)

6. $5 \times 10^6 \times 9.46 \times 10^{12}$ km
   $= 4.73 \times 10^{19}$ km

7. 1 year (not leap year) = $365 \times 24 \times 60 \times 60$
   $= 31536000$ seconds
   Profit = £ $3.2 \times 10^9 \div 31536000 = £101.47133....$
   $= £ 101$ per second.

8. No. of days = 26 (J) + 31(J) + 31(A) + 20 (S)
   $= 108$

   $2.925 \times 10^7 \div 108 = 270\ 833.333$
   $= 270\ 833$ visitors per day

9. $5.97 \times 10^{24} \div 2.2 \times 10^{30} \times 100$
   $= 0.0002713......\%$
   $= 2.71 \times 10^{-4}\ \%$ (3 sf)