Standard Form



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1.	Each of these large oil containers holds 4.80×10^8 litres of the fuel. How many litres are there altogether in the full tanks shown ? Give your answer in scientific notation.	2 KU	IJ
2.	A newspaper report stated "Concorde has now flown 7.1×10^7 miles This is equivalent to 300 journeys from the earth to the moon." Calculate the distance from the earth to the moon. Give your answer in scientific notation correct to 2 significant figures.	3 KU	IJ
3.	The planet Mars is at a distance of 2.3×10^8 kilometres from the Sun. The speed of light is 3.0×10^5 km per second. How long does it take light from the Sun to reach Mars ? Give your answer to the nearest minute.	3 KU	U
4.	A planet takes 88 days to travel round the Sun. The approximate path of the planet round the Sun is a circle with diameter 1.2×10^7 kilometres.		
	Find the speed of the planet as it travels round the Sun.		
	Give your answer in kilometres per hour, correct to 2 significant figures.	4 KU	J
5.	The mass of a proton is approximately 1.8×10^3 times greater than the mass of an electron. If the mass of an electron is 9.11×10^{-31} kg, calculate the mass of a proton. Give your answer in scientific notation correct to 2 significant figures.	2 KU	U
6.	Large distances in space are measured in light years. A camera on a space telescope, photographs a galaxy, a distance of 50 million light years away. One light year is approximately 9.46×10^{12} kilometres. Calculate the distance of the galaxy from the space telescope in kilometres. Give your answer in scientific notation	2 KU	IJ
7.	The annual profit (£) of a company was 3.2×10^9 for the year 1997. What profit did the company make per second. Give your answer to three significant figures .	2 KU	IJ
8.	The total number of visitors to an exhibition was 2.925×10^7 . The exhibition was open each day from 5 June to 20 September inclusive . Calculate the average number of visitors per day to the exhibition.	3 KU	IJ
9.	The mass of the sun is 2.2×10^{30} kilograms. The mass of the earth is 5.97×10^{24} kilograms. Express the mass of the earth as a percentage of the mass of the sun. Give your answer in scientific notation .	3 KU	IJ