



Name \_\_\_\_\_

**MINUTES TO MESSAGE**

<b>FROM</b>	<b>TO</b>	<b>KILOMETERS</b>	<b>MILES</b>	<b>TIME REQUIRED</b>
Mercury	Venus	$5.029 \times 10^7$		
Mercury	Earth	$9.1961 \times 10^7$		
Mercury	Mars	$1.7003 \times 10^8$		
Mercury	Jupiter	$7.2042 \times 10^8$		
Mercury	Saturn	$1.36669 \times 10^9$		
Mercury	Neptune	$2.81564 \times 10^9$		
Mercury	Uranus	$4.44309 \times 10^9$		
Venus	Earth	$4.14 \times 10^7$		
Venus	Mars	$1.1974 \times 10^8$		
Venus	Jupiter	$6.7013 \times 10^8$		
Venus	Saturn	$1.3164 \times 10^9$		
Venus	Uranus	$2.76535 \times 10^9$		
Venus	Neptune	$4.3928 \times 10^9$		
Earth	Mars	$7.834 \times 10^7$		
Earth	Jupiter	$6.2873 \times 10^8$		
Earth	Saturn	$1.275 \times 10^9$		
Earth	Uranus	$2.72395 \times 10^9$		
Earth	Neptune	$4.3514 \times 10^9$		
Mars	Jupiter	$5.5039 \times 10^8$		
Mars	Saturn	$1.19666 \times 10^9$		
Mars	Uranus	$2.64561 \times 10^9$		
Mars	Neptune	$4.27306 \times 10^9$		
Jupiter	Saturn	$6.4627 \times 10^9$		
Jupiter	Uranus	$2.09522 \times 10^9$		
Jupiter	Neptune	$3.72267 \times 10^9$		
Saturn	Uranus	$1.44895 \times 10^9$		
Saturn	Neptune	$3.0764 \times 10^9$		
Uranus	Neptune	$1.62745 \times 10^9$		

Radio waves travel very quickly through space. Radio waves are a kind of electromagnetic radiation, so they move at the speed of light. Radio waves move at a rate of  $1.86 \times 10^5$  miles per second.