

SURFACE AREA OF A SPHERE

SELF-CHECK PUZZLE

MARS MISSION'S OXYGEN GENERATOR



The first privately owned space rocket company, SpaceX, is planning a Mars mission in the next decade. To generate oxygen for such a long journey, a white powdery chemical is decomposed at 400°C . This chemical is also used in submarines.

The dimensions of spheres are given below. Use $\pi = 3.14$ to work out the surface areas of these spheres to find out this chemical's name.

P	Radius = 6.3	I	Diameter = 240
H	Radius = 17	L	Diameter = 12
R	Radius = 102	L	Diameter = 2.8
C	Radius = 28	O	Diameter = 4.9
T	Radius = 3.7	I	Diameter = 52
A	Radius = 45	E	Diameter = 25
H	Radius = 2.6	E	Diameter = 180
T	Radius = $4\frac{1}{4}$	R	Diameter = 23.5
U	Radius = $2\frac{3}{8}$	M	Diameter = $12\frac{2}{3}$

<u>452.2</u>	<u>180864</u>	<u>171.9</u>	<u>3629.8</u>	<u>8490.6</u>	<u>70.8</u>
<u>503.8</u>	<u>498.5</u>	<u>1962.5</u>	<u>130674.2</u>	<u>9847</u>	<u>84.9</u>
<u>24.6</u>	<u>75.4</u>	<u>1734.1</u>	<u>25434</u>	<u>226.9</u>	<u>101736</u>

ANSWER

LITHIUM PERCHLORATE