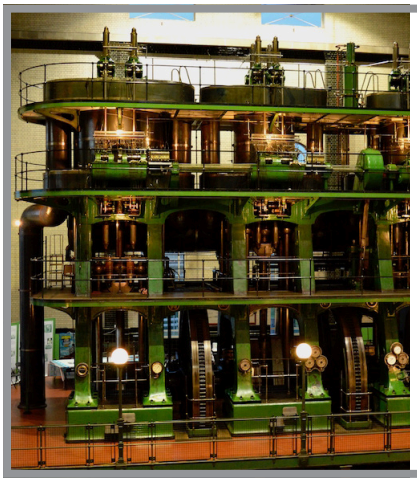
KEMPTON STEAM MUSEUM

Clean Water for Life
Learning Resources

Under Pressure: Steam Powered Maths



Sir William Prescott Engine Facts

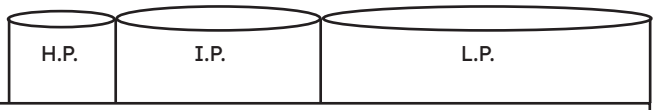
Height = 19 metres
Weight = 800 tonnes
Year built = 1928
Water pumped = 19 million litres per day
Speed = 25.4 revolutions per minute
H.P. cylinder diameter = 73.66 cm
I.P. cylinder diameter = 137.16 cm
L.P. cylinder diameter = 218.44 cm

1. How high is the Sir William Prescott Engine in centimetres?

2. An elephant weighs about 5 tonnes, how many elephants would weigh the same as the engine?

3. How many years ago was the engine built?

4. If the cylinders were placed side by side what would be their total width?
(Round your answer to the nearest whole number)



5. If the engine runs for 3 minutes how many revolutions does it make?

6. A lorry can carry 20 tonnes. How many lorries would we need to transport the engine to somewhere else?

7. Fill in the missing > < symbols for the cylinder measurements.

218.44cm	1.37m	0.73m	73.66cm	73.66cm	2.18m

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