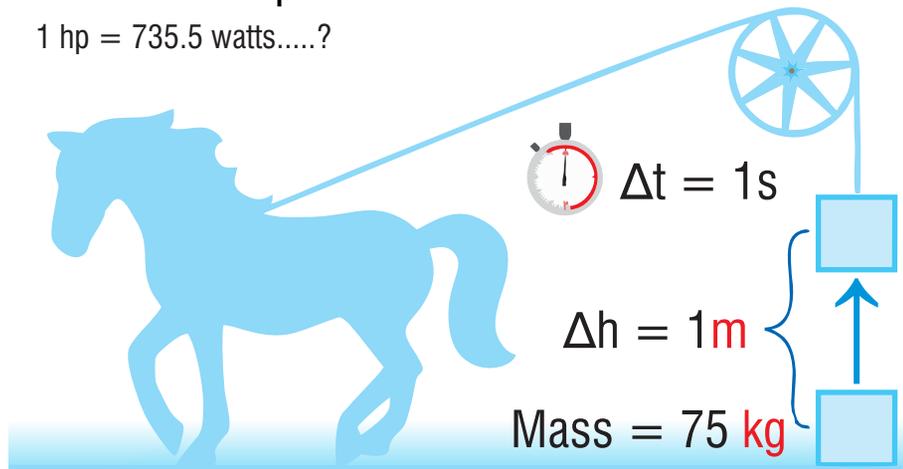




FAQ: 1hp = 0.7355 or 0.746 kW... ?

Metric Horsepower

1 hp = 735.5 watts.....?



$$1 \text{ Metric Horsepower (hp)} = \frac{m \times \Delta h \times g}{\Delta t}$$

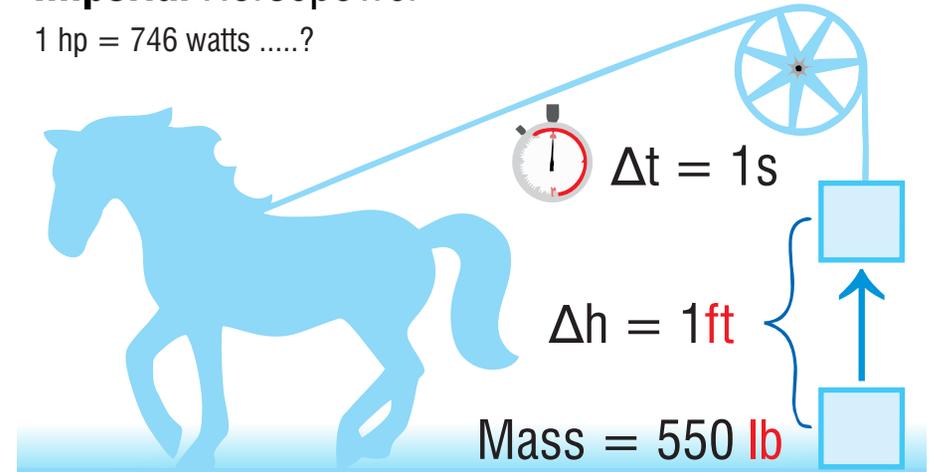
$$= \frac{75 \times 1 \times 9.80}{1_s}$$

$$= 735.5 \text{ Watts} \left(\frac{\text{kg} \cdot \text{m}^2}{\text{s}^3} \right)$$

Hence 1 **Metric Horsepower** = **0.7355 kW**

Imperial Horsepower

1 hp = 746 watts.....?



$$1 \text{ Imperial Horsepower (hp)} = \frac{m \times \Delta h \times g}{\Delta t}$$

$$1 \text{ lb} = 0.4535 \text{ kg}, 1 \text{ ft} = 0.3048 \text{ m}, \\ g = 32.1741 \text{ ft/sec}^2$$

$$= \frac{(550 \times 0.4535) \times (1 \times 0.3048) \times (32.1741 \times 0.3048)}{1_s}$$

$$= 745.6 \text{ Watts} \left(\frac{\text{kg} \cdot \text{m}^2}{\text{s}^3} \right)$$

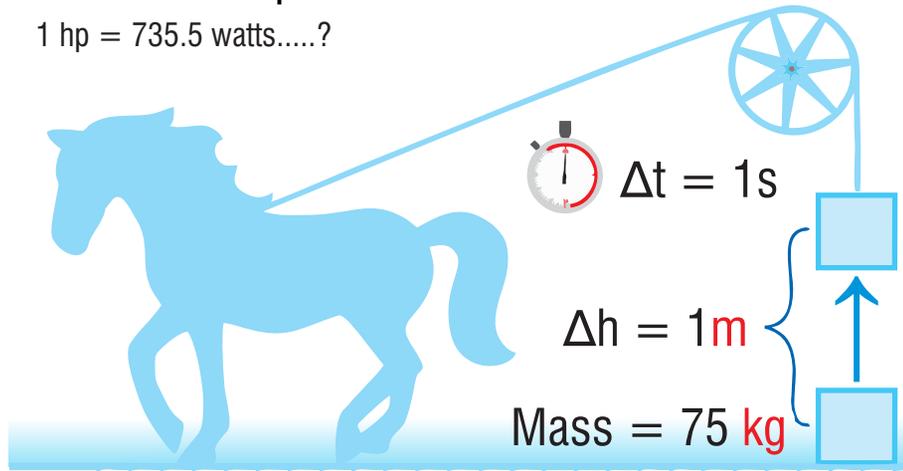
Hence 1 **Imperial Horsepower** = **0.746 kW**



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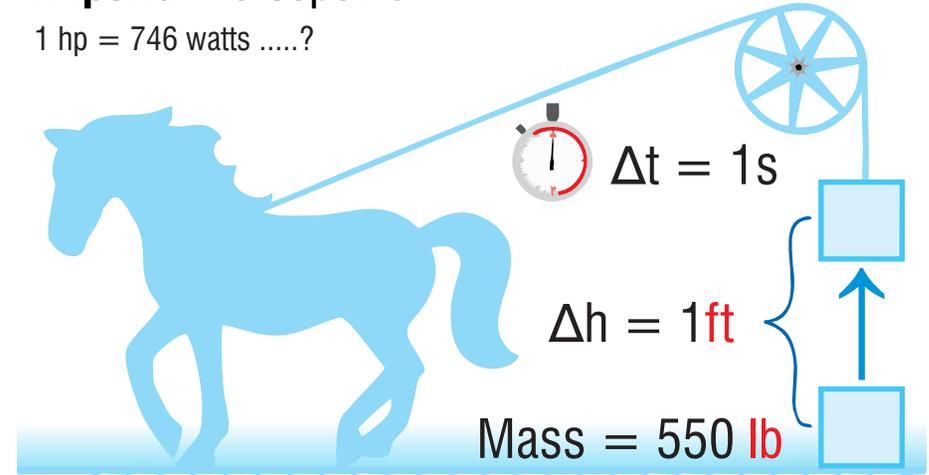
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Hence 1 **Imperial Horsepower** = **0.746 kW**

Made by	Issue	MktG.	QuCl.	SITC	PRJ.	D&D.	HR	QC	PuRC	PuRB	McSH	AsIY	StoR	DisP	Acct	Sindhu	Narmada	Brg.	IT	Core Pressing	Winding	Testing
RTB	to →	✓ A3	✓ A3	✗	✗	✓ A3	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓ A3	✓ A3	✗	✗	✗	✓ A3	✓ A2