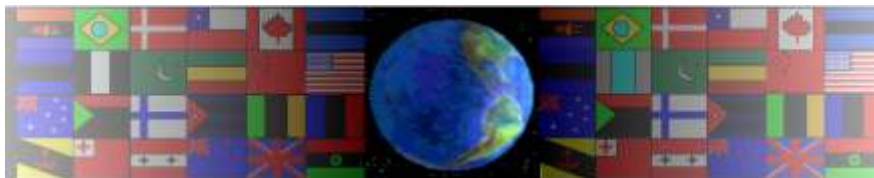


# PULLEY SYSTEMS - VELOCITY RATIO

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On behalf of The World Association of Technology Teachers

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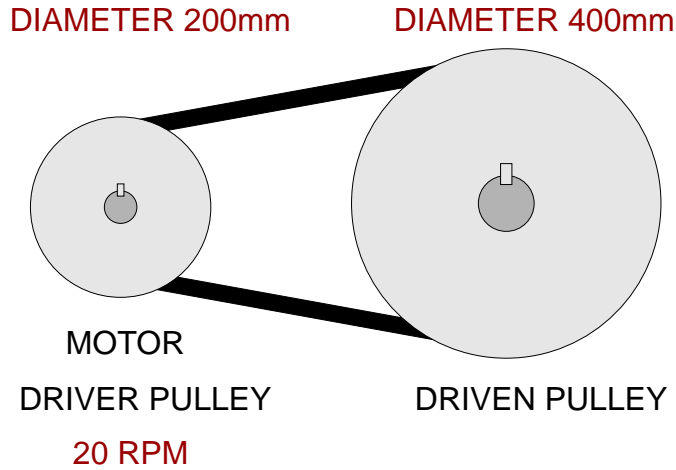
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# PULLEY SYSTEMS - VELOCITY RATIO

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A typical pulley system is shown below. Work out the velocity ratio. You must include all working out, including the formulas.

**A.**



VELOCITY RATIO, FORMULA:

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The driver pulley is attached to a motor. When the motor is switched on the driver pulley revolves at 20 rpm. The diameters of both the driver and driven pulleys are displayed on the diagram above. What is the rpm at the driven pulley?

FORMULA:

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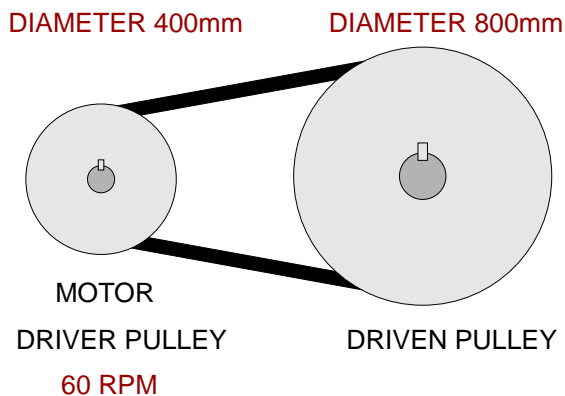
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If the driven pulley rotates in a clockwise direction, what is the direction of rotation of the driver pulley?

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**B.**



Study diagram 'B'. What is the rpm of the driven pulley?

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