

Engineering

Measurement sheet for pi

Purpose

This resource supports the material viewed in [Engineering: Developing an understanding of pi](#). It is designed to support learners to identify the relationship between 'pi' (3.14) and the circumference, diameter and radius of a circle.

Instructions

1. Provide a measurement sheet (p. 2) to a pair of learners.
2. Identify a range of circular objects that learners can measure. This may include drums, pots, pillars, wheels and tyres.
3. Using either a flexible measuring tape or a piece of string have learners measure the circumference of the object and record the measurement in mm on the sheet.
4. Next, learners measure the diameter and also record this in mm on the sheet.
5. After the items have been measured, ask learners to complete the last column by dividing the circumference by the diameter.
6. The learners should begin to see that the resulting ratio between the circumference and diameter is consistent.
7. Discuss the results with the class.

See [Engineering: Developing an understanding of pi](#) for follow-up activities.

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Object	Radius	Diameter	Circumference	Circumference ÷ diameter