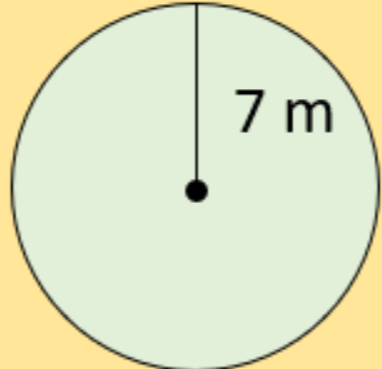


(1) Key Terms

Radius	A line from the centre of a circle to a point on the circumference.
Diameter	The line from one point on the circumference to another point on the circumference going through the centre
Object	In Enlargements, the shape that is to be transformed.
Image	In Enlargements, the shape that has been transformed.
Averages	A single number that best represents the typical value of a set of data.

(2) Area of a Circle

Area of a circle = πr^2



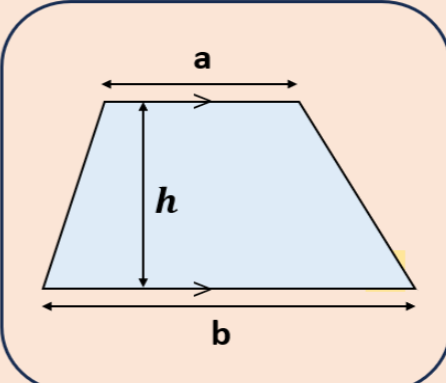
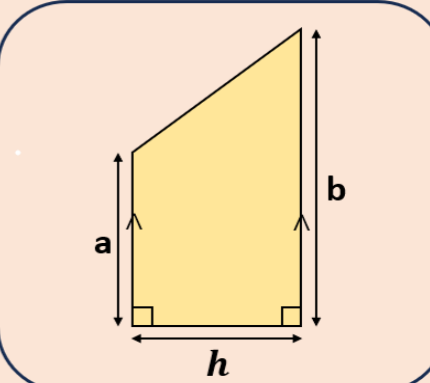
$$= \pi \times 7^2$$

$$= \pi \times 49$$

$$= 49\pi \text{ m}^2$$

This answer is written in **terms of pi**.

(3) Area of a Trapezium

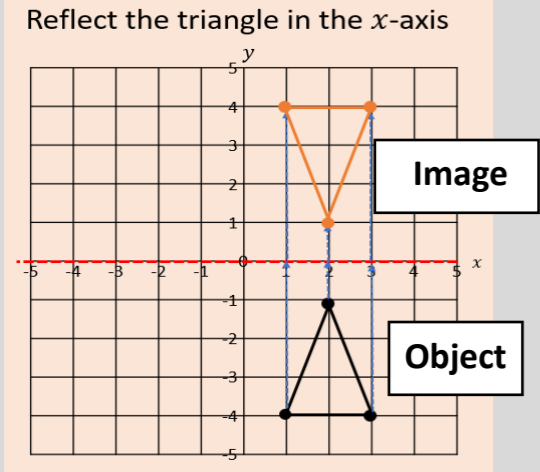



Area of a Trapezium = $\left(\frac{a+b}{2}\right)h$

Half the sum of the parallel sides multiplied by the height.

(4) Reflections

Reflect the triangle in the *x*-axis



The blue lines are just to show that each of the corresponding corners (**vertices**) are the **same distance** from the **line of reflection**.

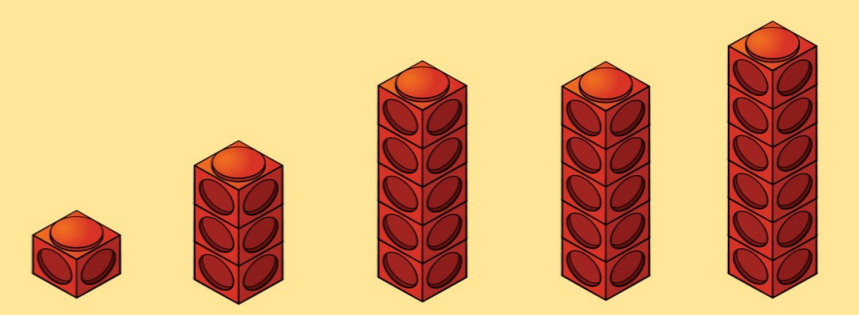
(5) The Data Handling Cycle

When you pose a question you then create a **Hypothesis** written in the form of a statement.

```

    graph TD
      A[Pose a Question] --> B[Collect the Data]
      B --> C[Analyse the Data]
      C --> D[Interpret the Results]
      D --> A
  
```

(6) Types of Averages



Mode = 5	The most common number of cubes in the towers is five .
Median = 5	When placed in ascending order of height, the median is the middle tower. 1, 3, 5, 5, 6
Mean = 4	Sum the total number of cubes and then divide them into five towers. $\frac{1+3+5+5+6}{5} = \frac{20}{5} = 4$