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OXFORD

New Syllabus

# PRIMARY MATHEMATICS

## Activity Handbook

6

Consultant and Author: **Shazia Asad**

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## Algebraic Bars

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$$9 + b = 9 + \square$$
$$= \square$$

$$3c + 15 = 3 \times \square + 15$$
$$= \square + 15$$
$$= \square$$

$$20 - 2d = 20 - 2 \times \square$$
$$= \square \bigcirc \square$$
$$= \square$$

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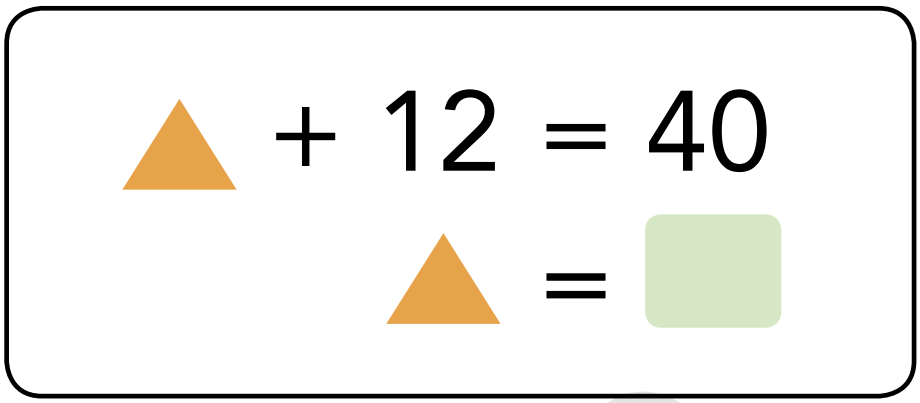
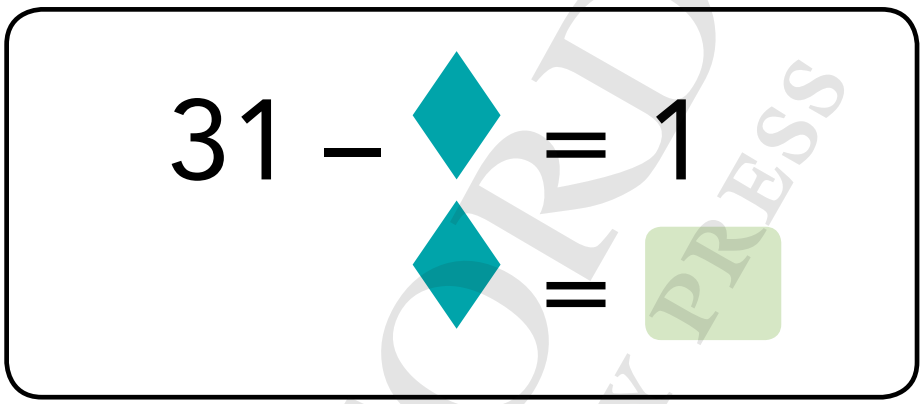
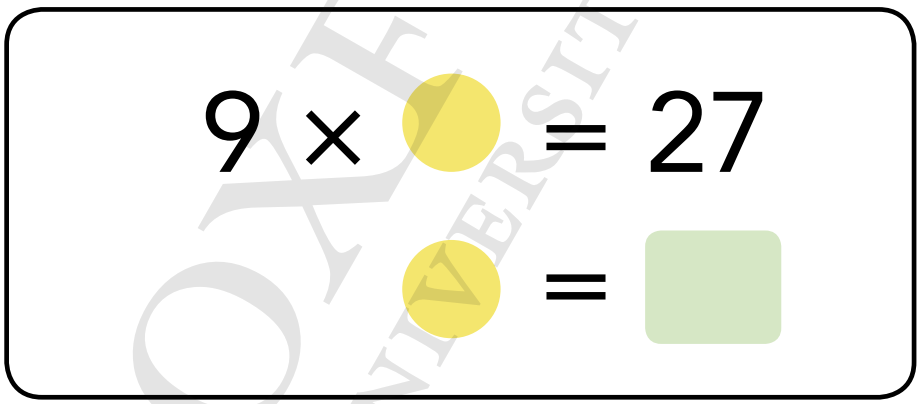
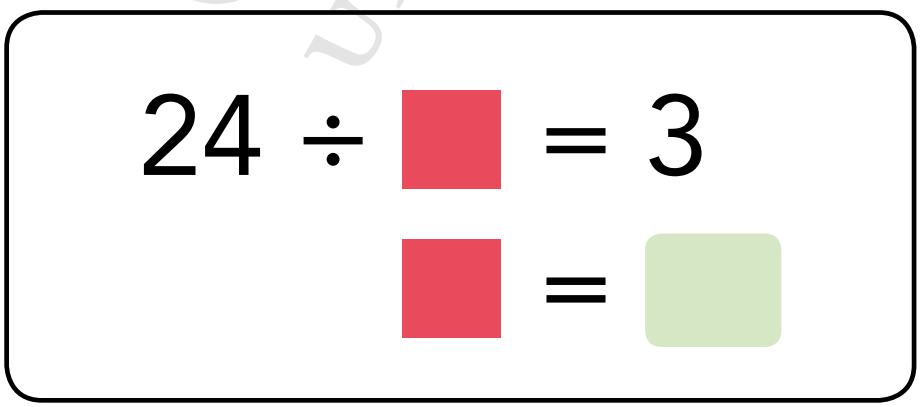
## Solving Equations Cards

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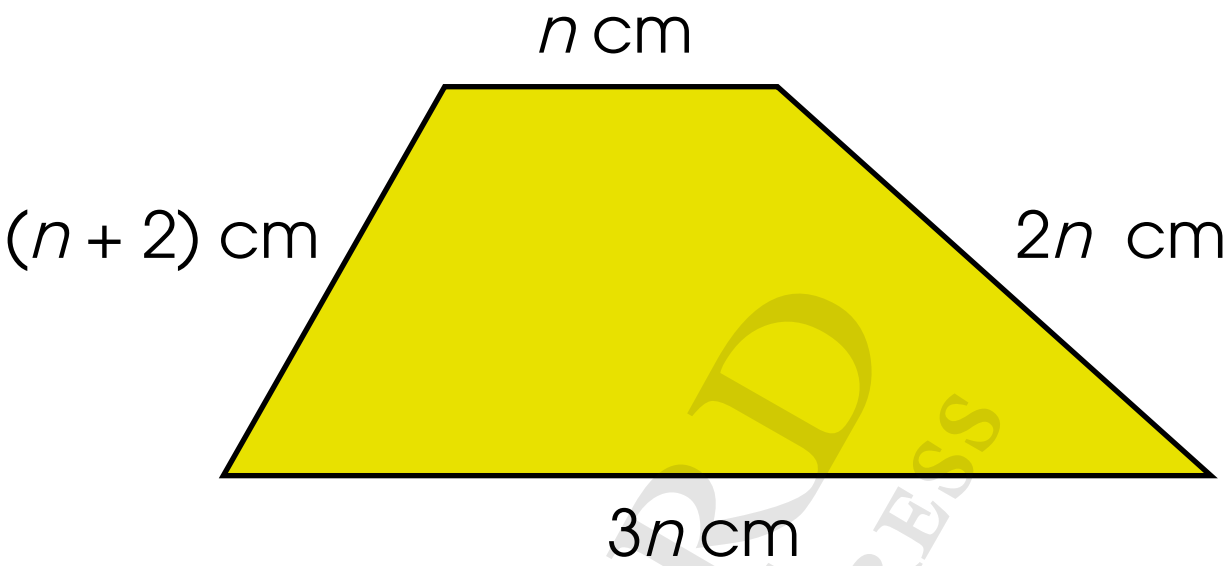

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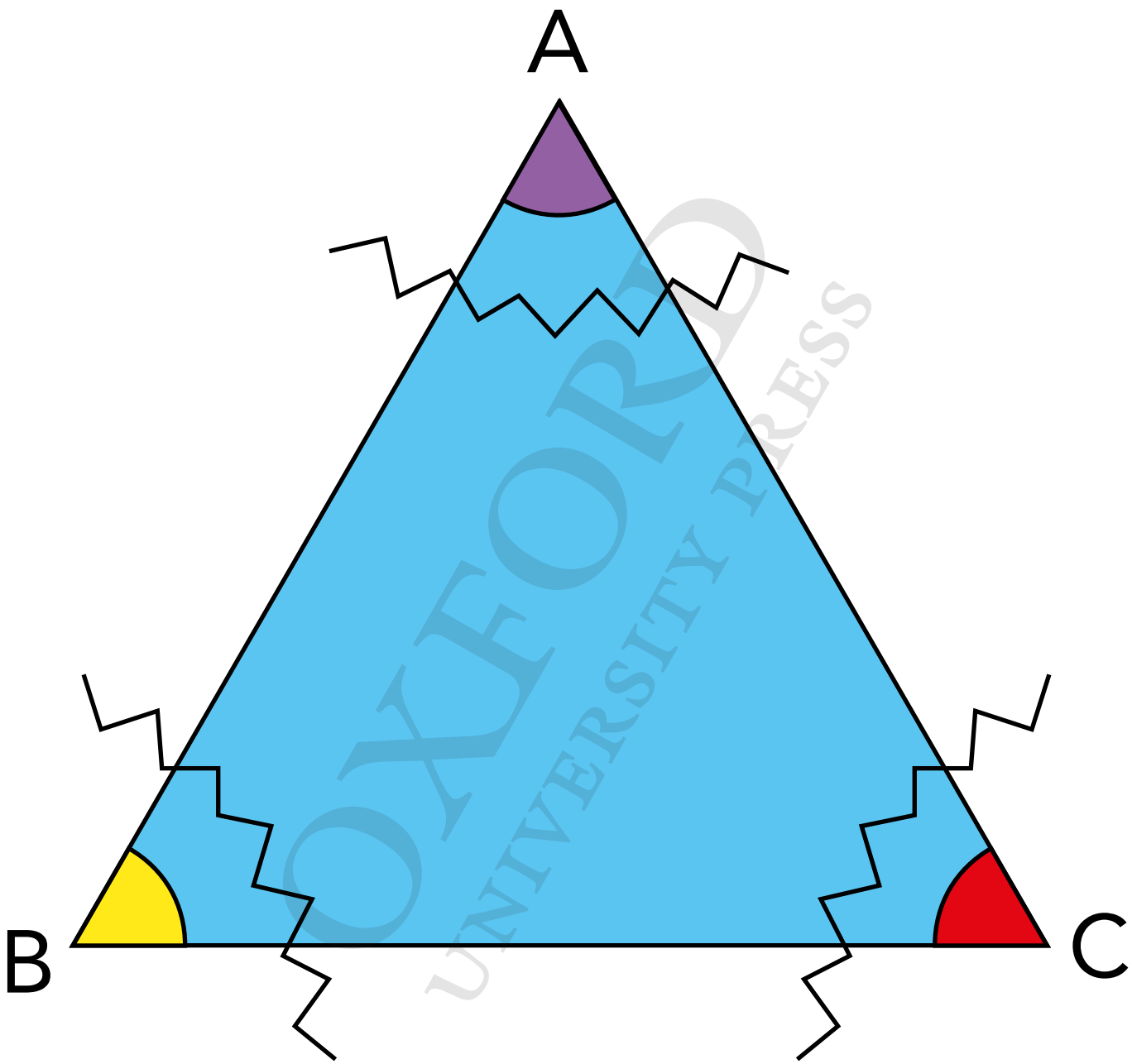
## Triangle (Sum of Angles)

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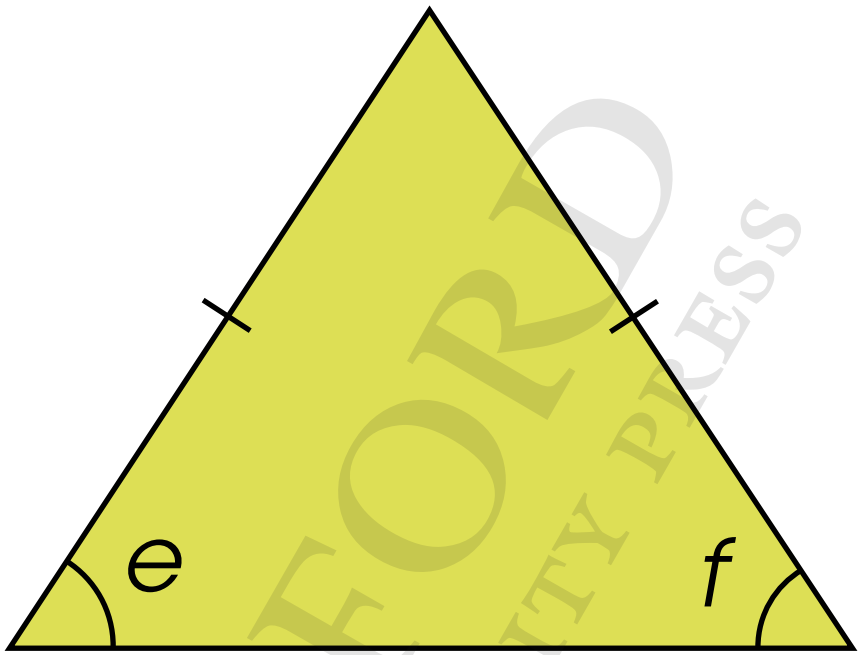
* Note to teacher:

- Cut out the angles and join them together to form a straight line to show that angles in a triangle add up to 180°.

***Worksheet***

Name:_____ Class: _____ Date: _____

## Isosceles Triangle




Write down the properties of an isosceles triangle.

An isosceles triangle…

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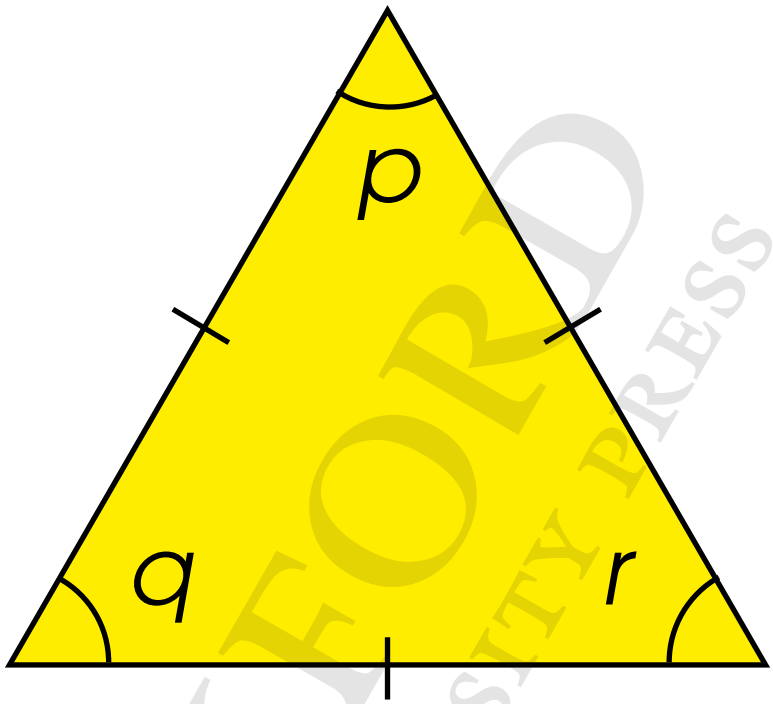
***Worksheet***

Name:_____ Class: _____ Date: _____

## Equilateral Triangle




Write down the properties of an equilateral triangle.

An equilateral triangle…

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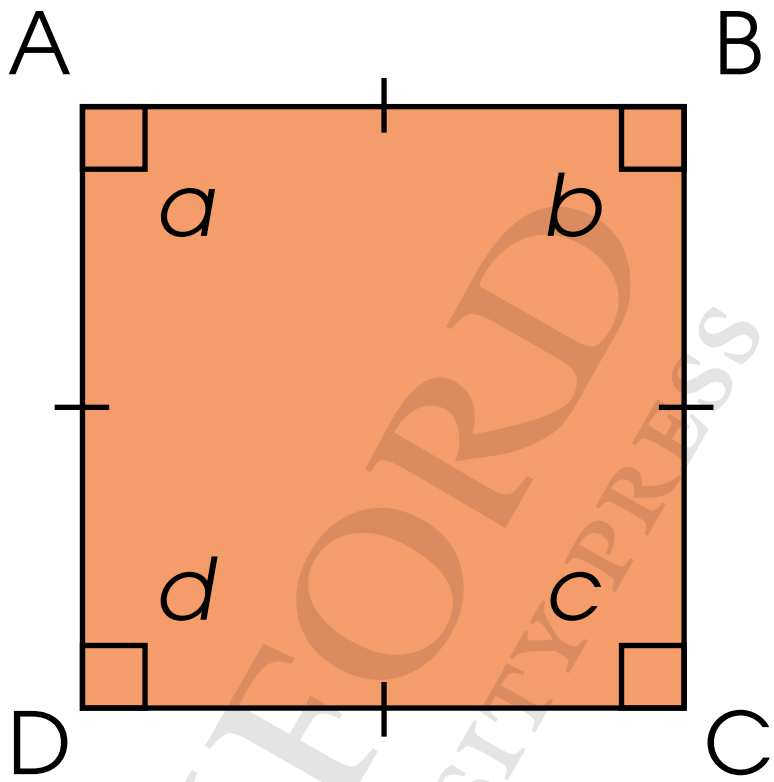
***Worksheet***

Name:_____ Class: _____ Date: _____

## Square




Write down the properties of a square.

A square...

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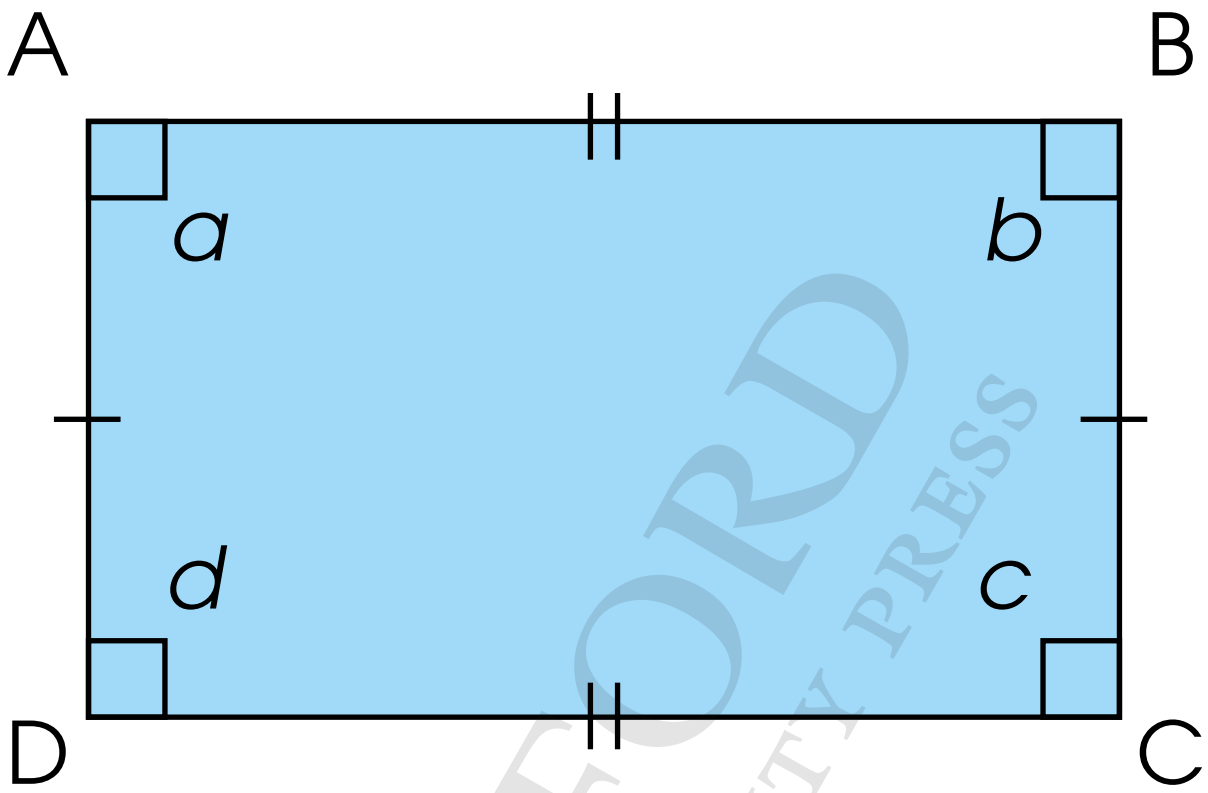
**Worksheet**

Name:_____ Class: _____ Date: _____

## Rectangle




Write down the properties of a rectangle.

A rectangle...

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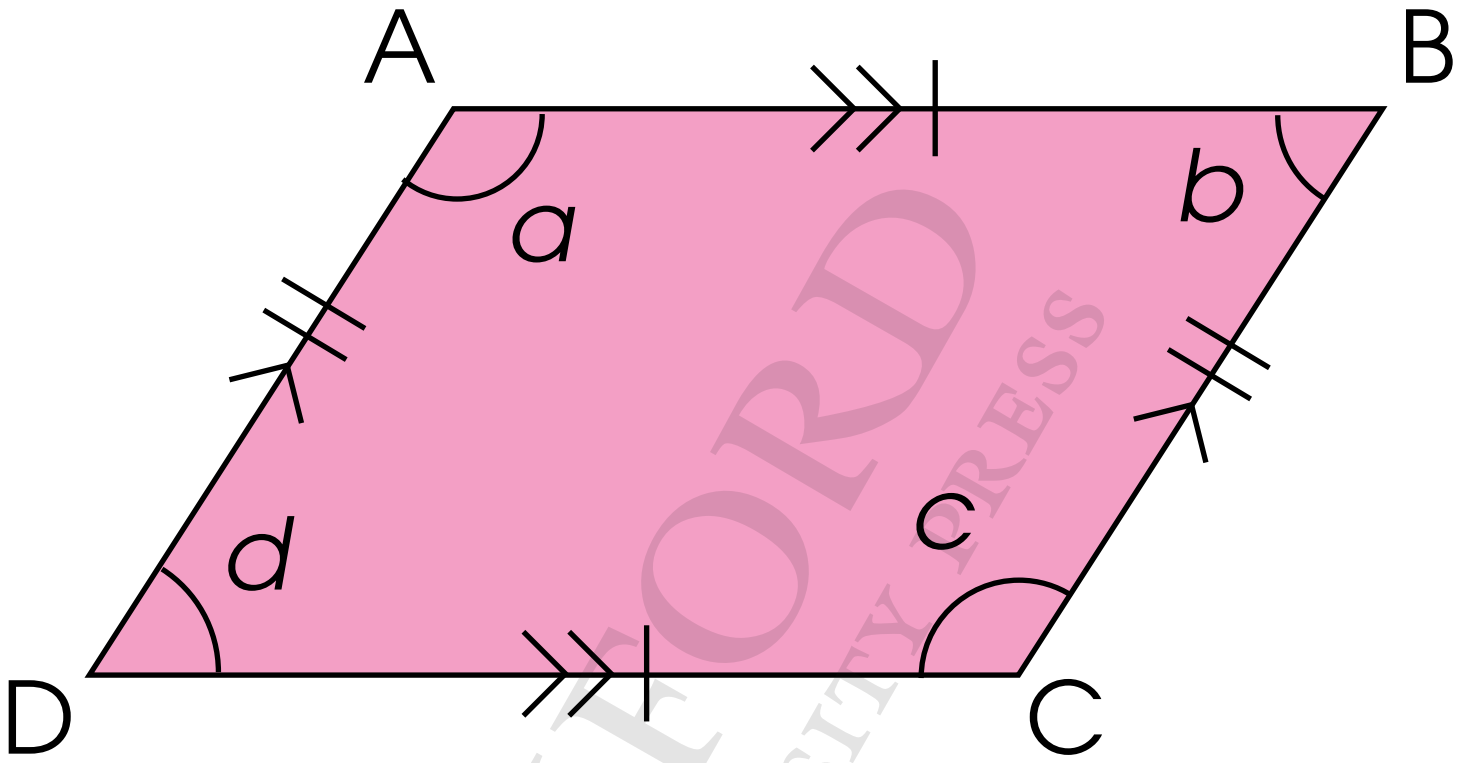
***Worksheet***

Name:_____ Class: _____ Date: _____

**Parallelogram**




Write down the properties of a parallelogram.

A parallelogram...

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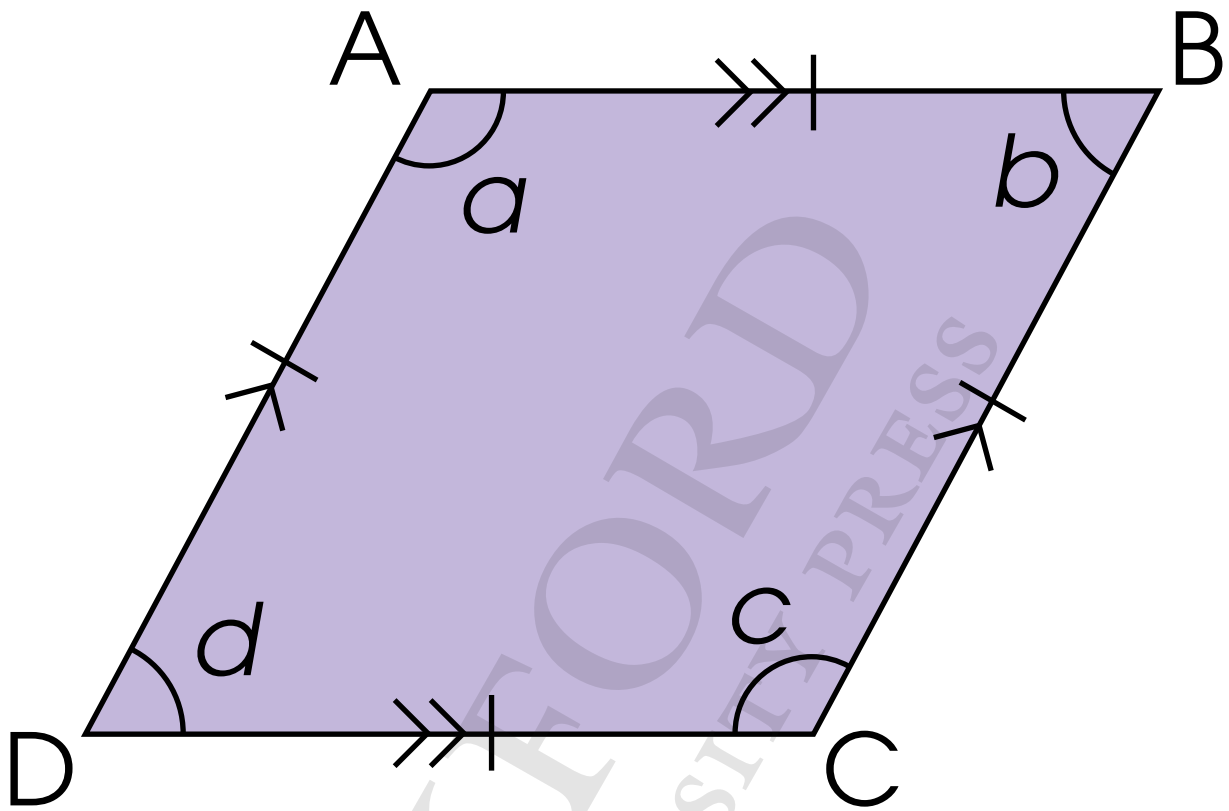
***Worksheet***

Name:_____ Class: _____ Date: _____

## Rhombus




Write down the properties of a rhombus.

A rhombus…

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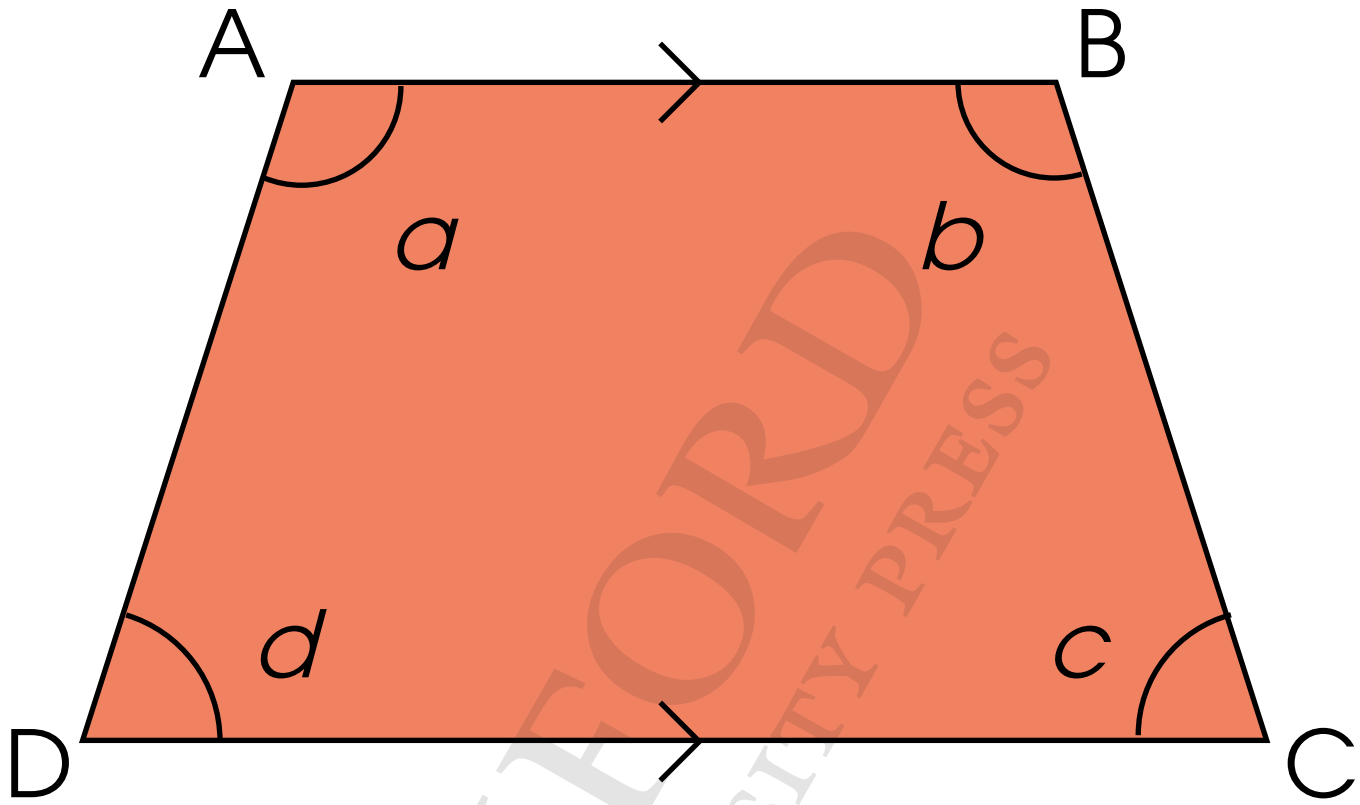
***Worksheet***

Name:_____ Class: _____ Date: _____

**Trapezium**




Write down the properties of a trapezium.

A trapezium…

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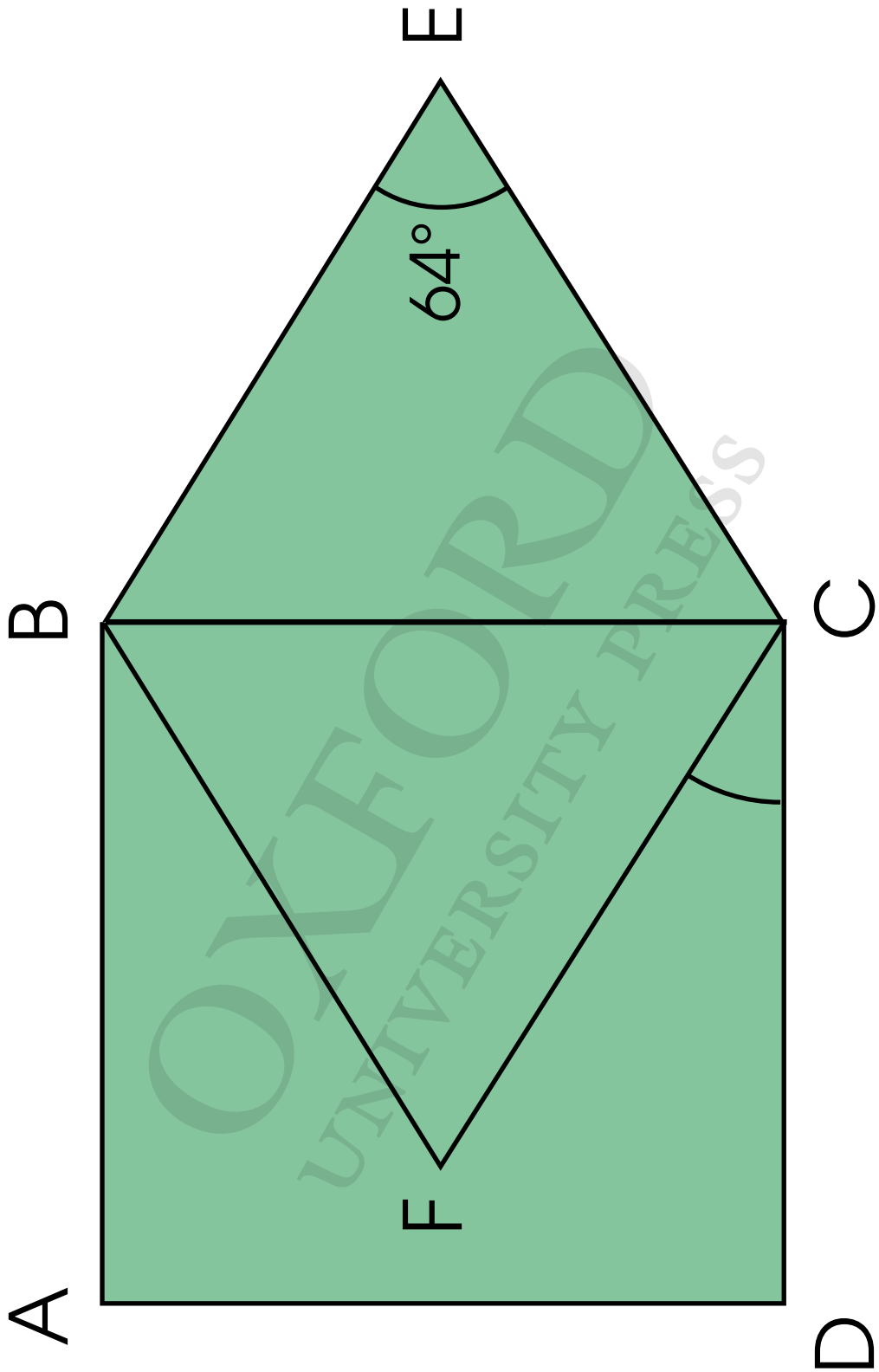
***Figure***

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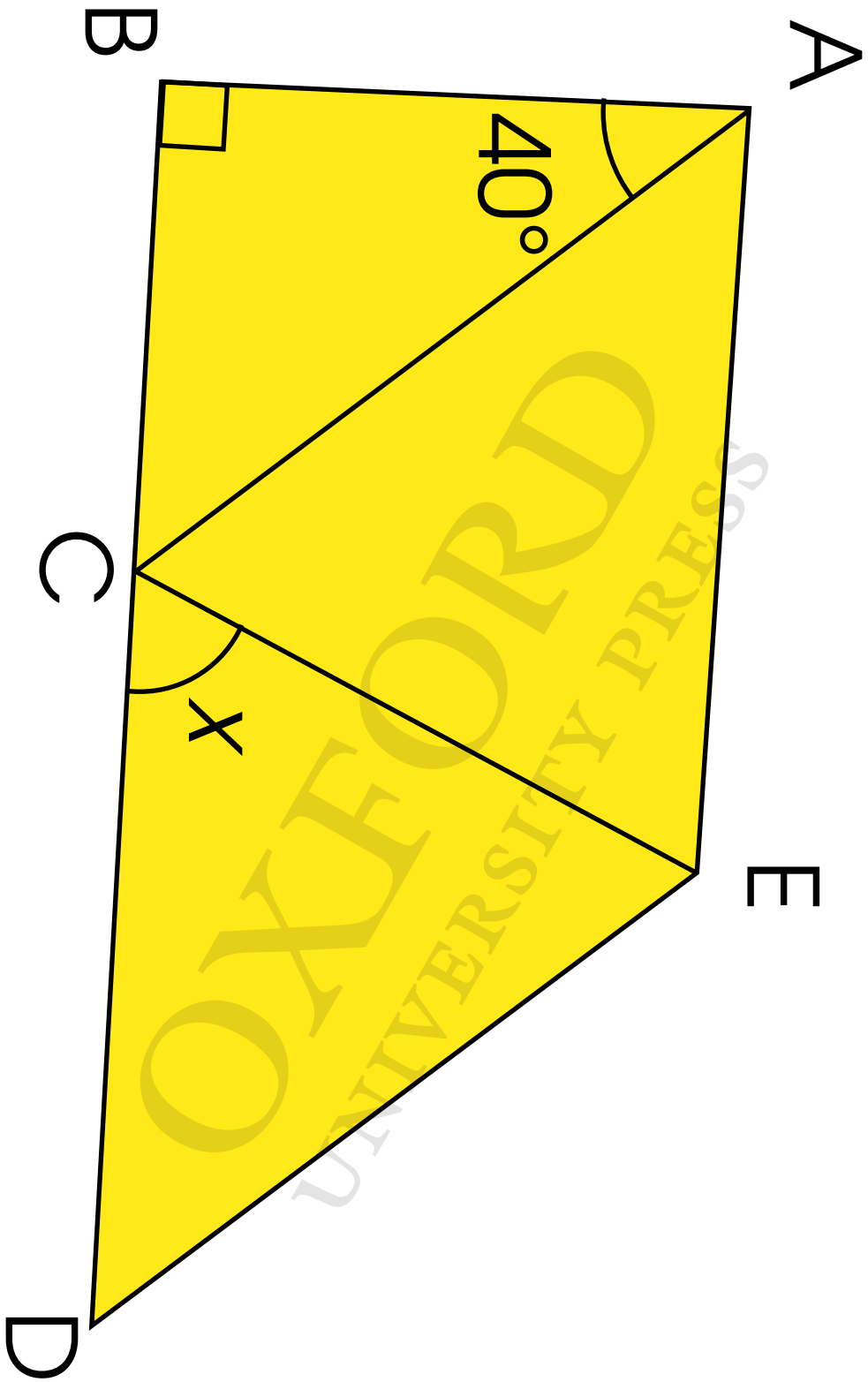
* Note to teacher:

- Cut out the figure and laminate it. Provide pupils with the laminated figure and markers to indicate the markings on the figure to show parallel sides and equal sides respectively.

**Figure (a)**

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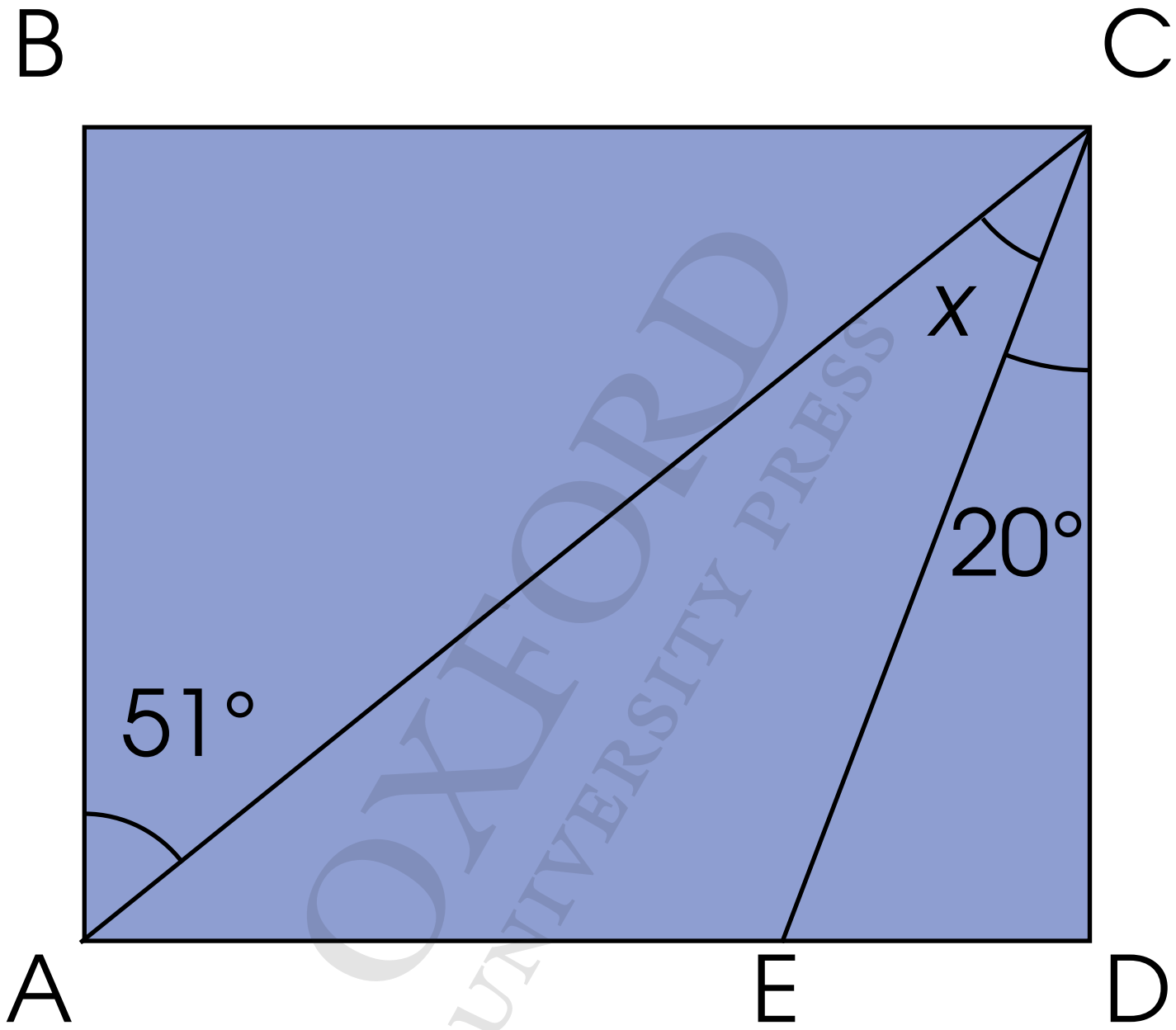
* Note to teacher:

- Cut out the figure and laminate it for 'Activity Time' (Textbook 6 P28).

**Figure (b)**

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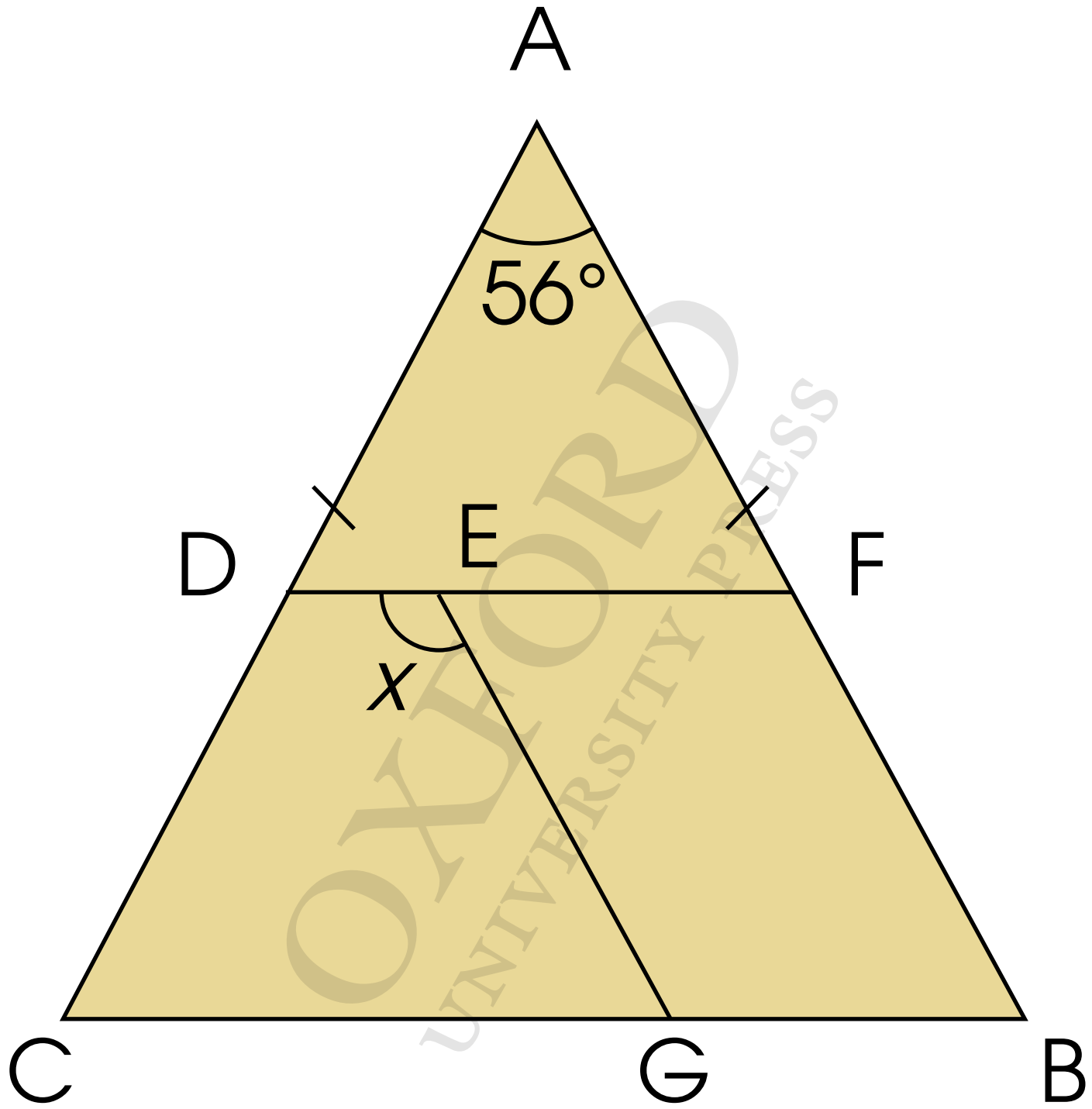
* Note to teacher:

- Cut out the figure and laminate it for 'Activity Time' (Textbook 6 P28).

**Figure (c)**

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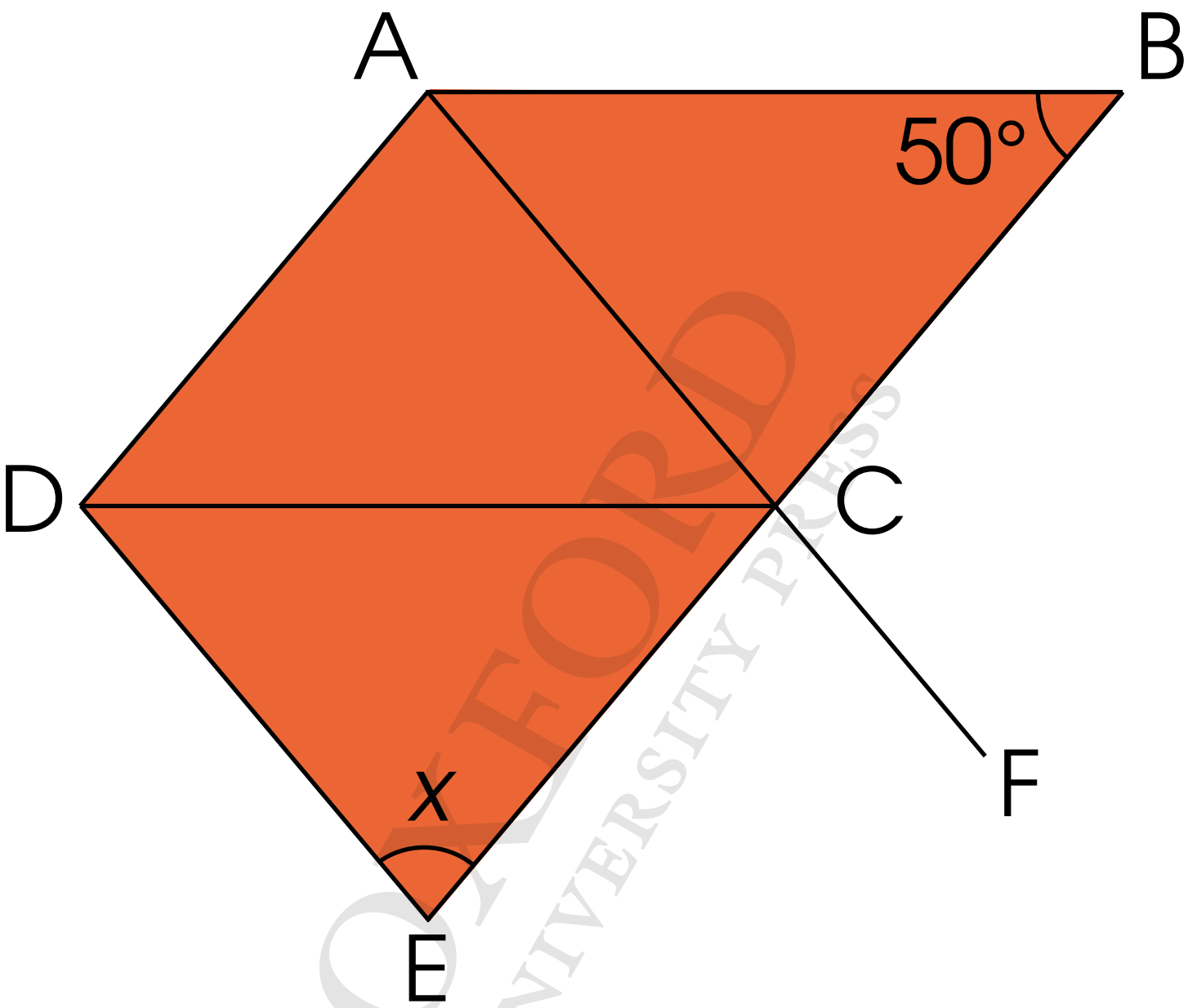
* Note to teacher:

- Cut out the figure and laminate it for 'Activity Time' (Textbook 6 P28).

**Figure (d)**

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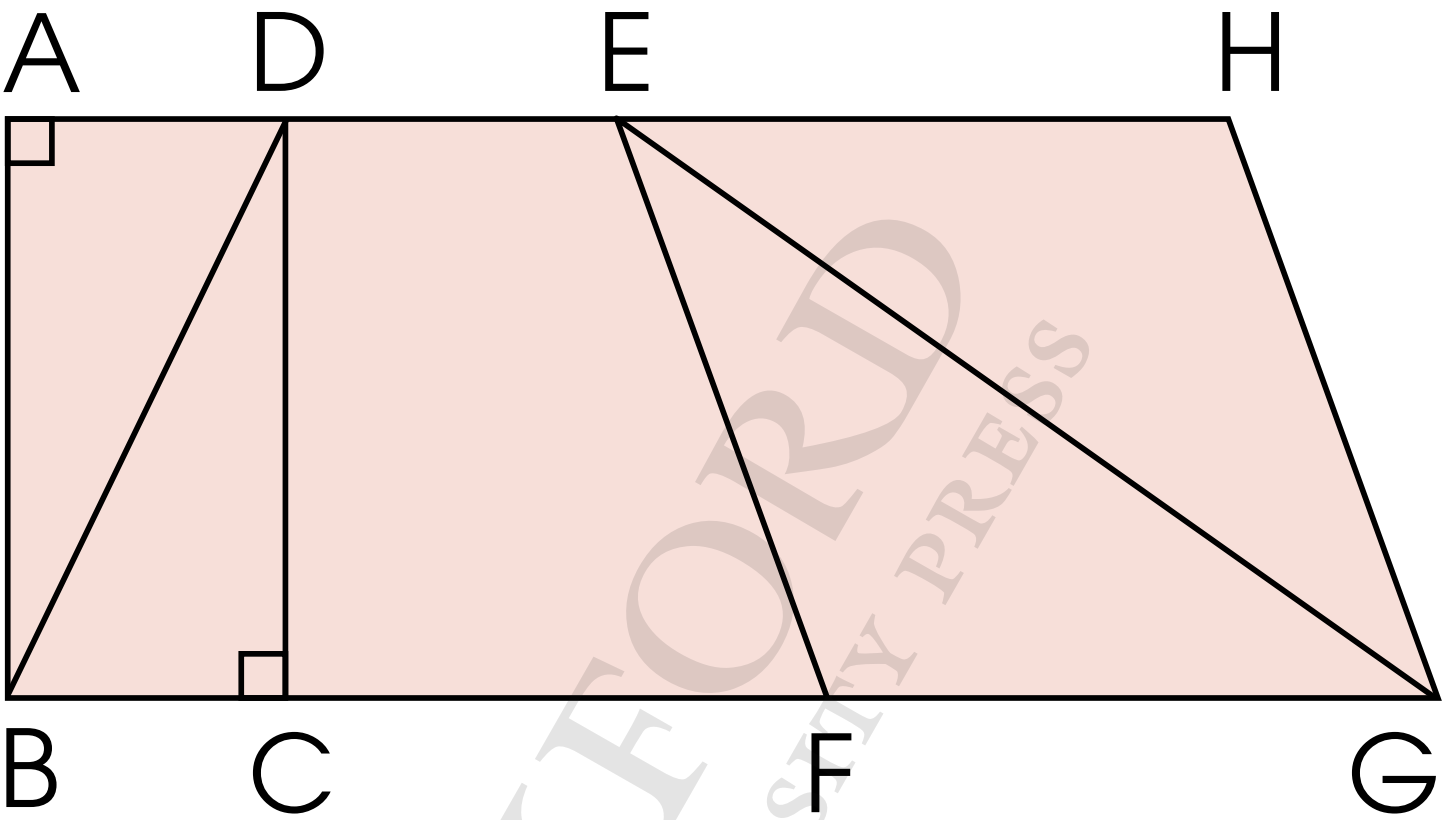
* Note to teacher:

- Cut out the figure and laminate it for 'Activity Time' (Textbook 6 P28).

***Figure ABGH***

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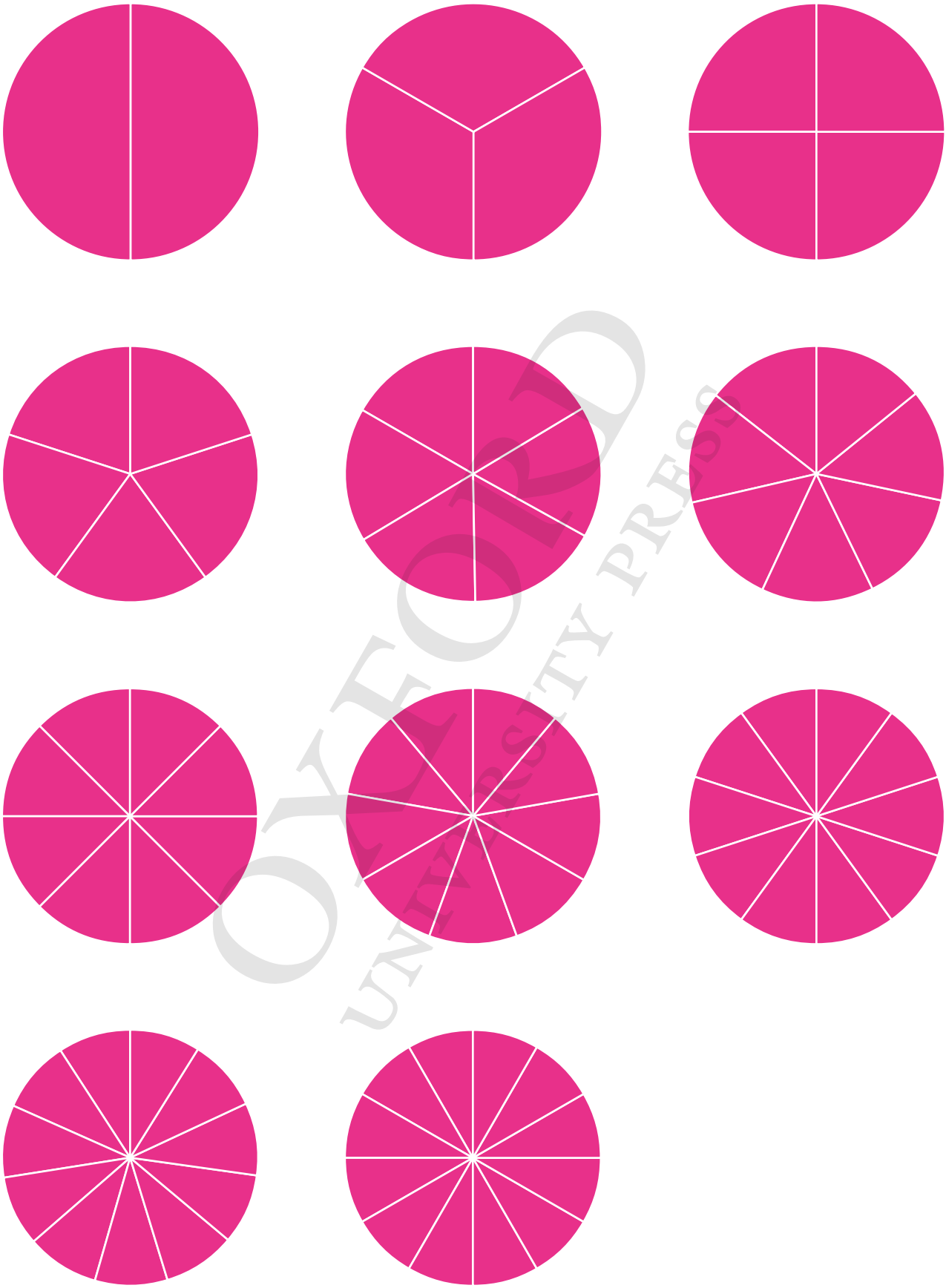
* Note to teacher:

- Cut out the figure and laminate it for 'Maths Journal' (Textbook 6 P32).

## Fraction Discs



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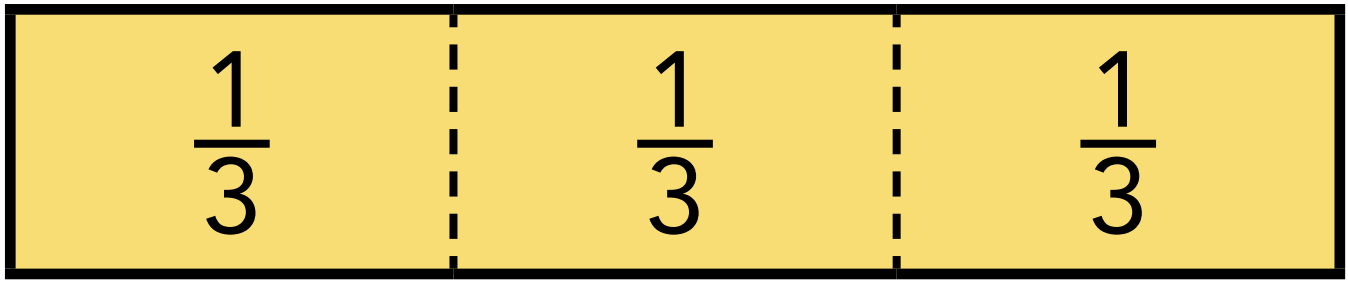
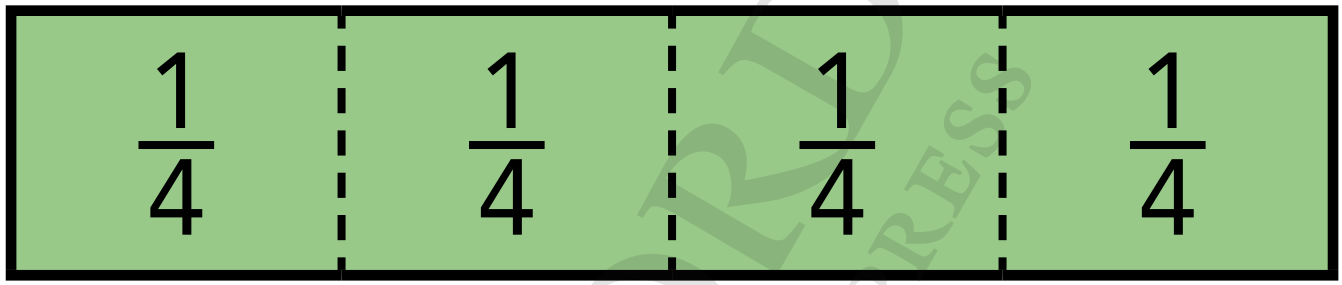
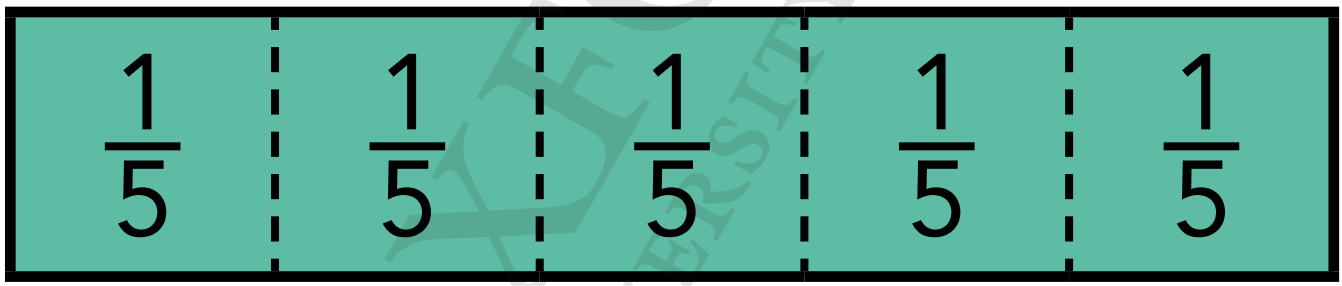
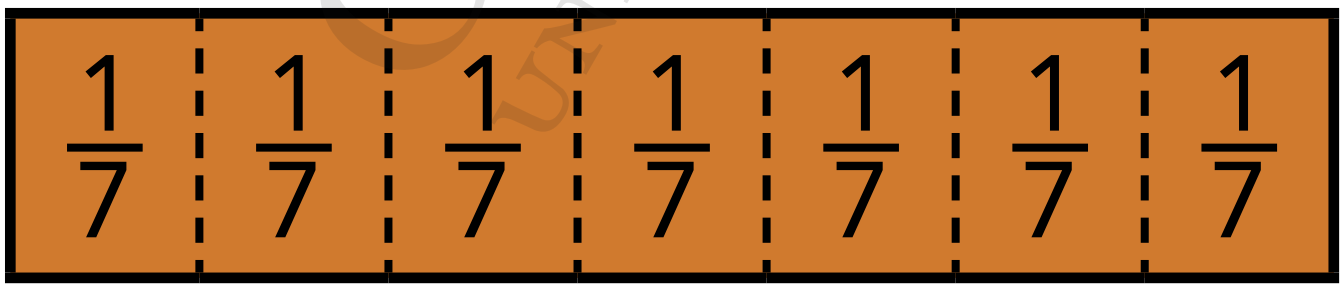
## Fraction Bars

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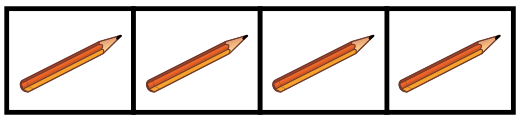
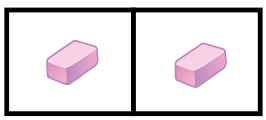
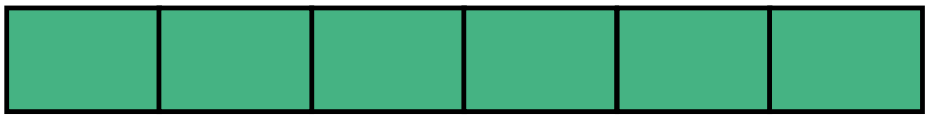
## Bar Models







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**Ratio Cards**

The number of pens is $\frac{\square}{\square}$ of the number of pencils.

Ratio of number of pens to number of pencils is $\square : \square$ .

The number of pencils is $\frac{\square}{\square}$ of the number of pens.

Ratio of number of pencils to number of pens is $\square : \square$ .

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* Note to teacher:

- *Use these for 'Activity Time' (Textbook 6 P71).*

# Ingredients for lemonade (serves 10)

- 1 cup white sugar
- 5 cups water
- $\frac{1}{2}$ cup lemon juice

3 cups macaroni

1 can condensed cream of chicken soup

1 can tuna

$\frac{1}{2}$ cup French fried onions

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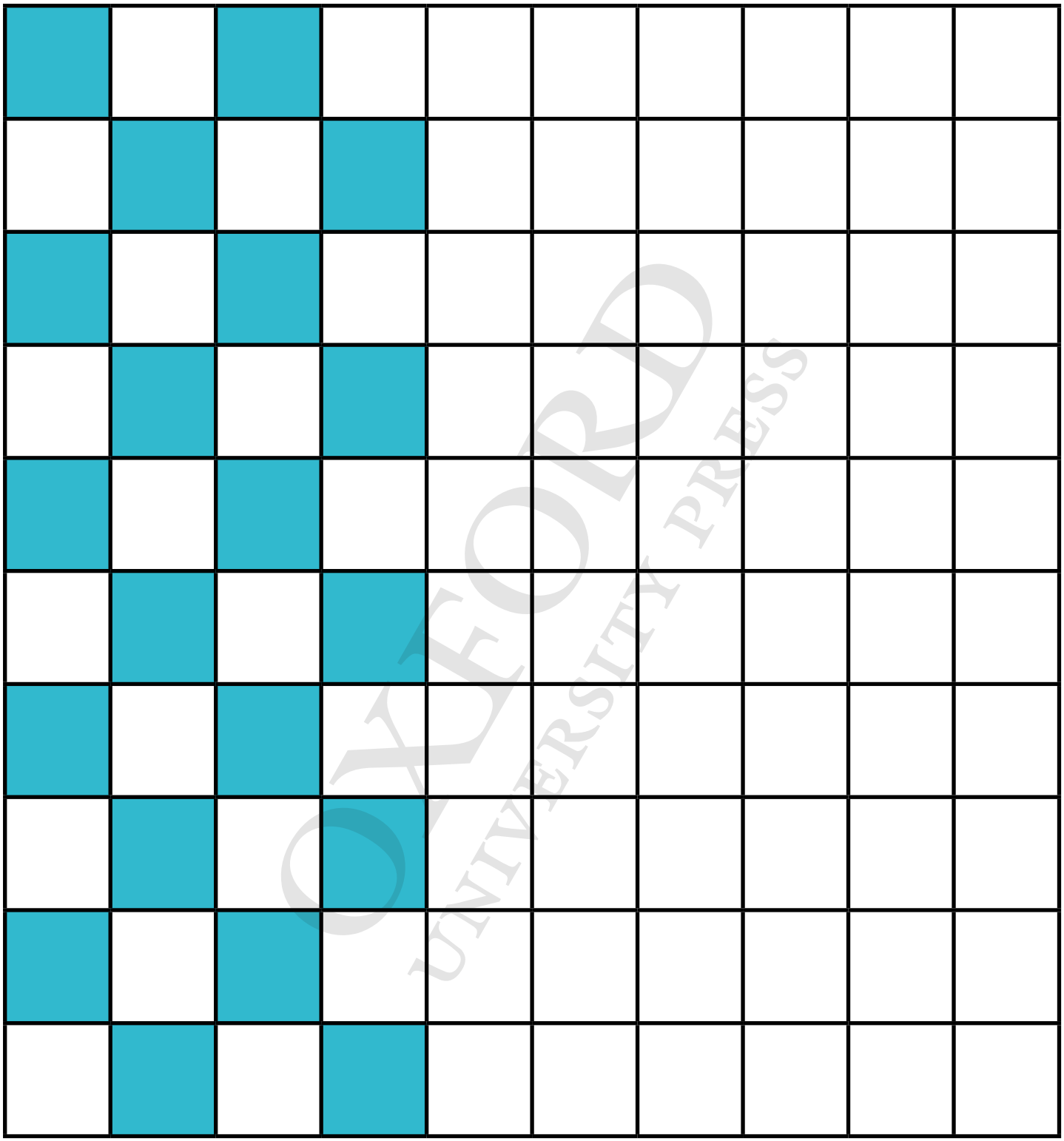
## Shaded and Unshaded Squares



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## *Percentage Increase and Decrease Formulae*

$$\text{Percentage increase} = \frac{\text{Increase}}{\text{Original quantity}} \times 100\%$$

$$\text{Percentage decrease} = \frac{\text{Decrease}}{\text{Original quantity}} \times 100\%$$

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## *Table of Results*

| First number | Second number | Increase/Decrease |
|---|---|---|
| | | |

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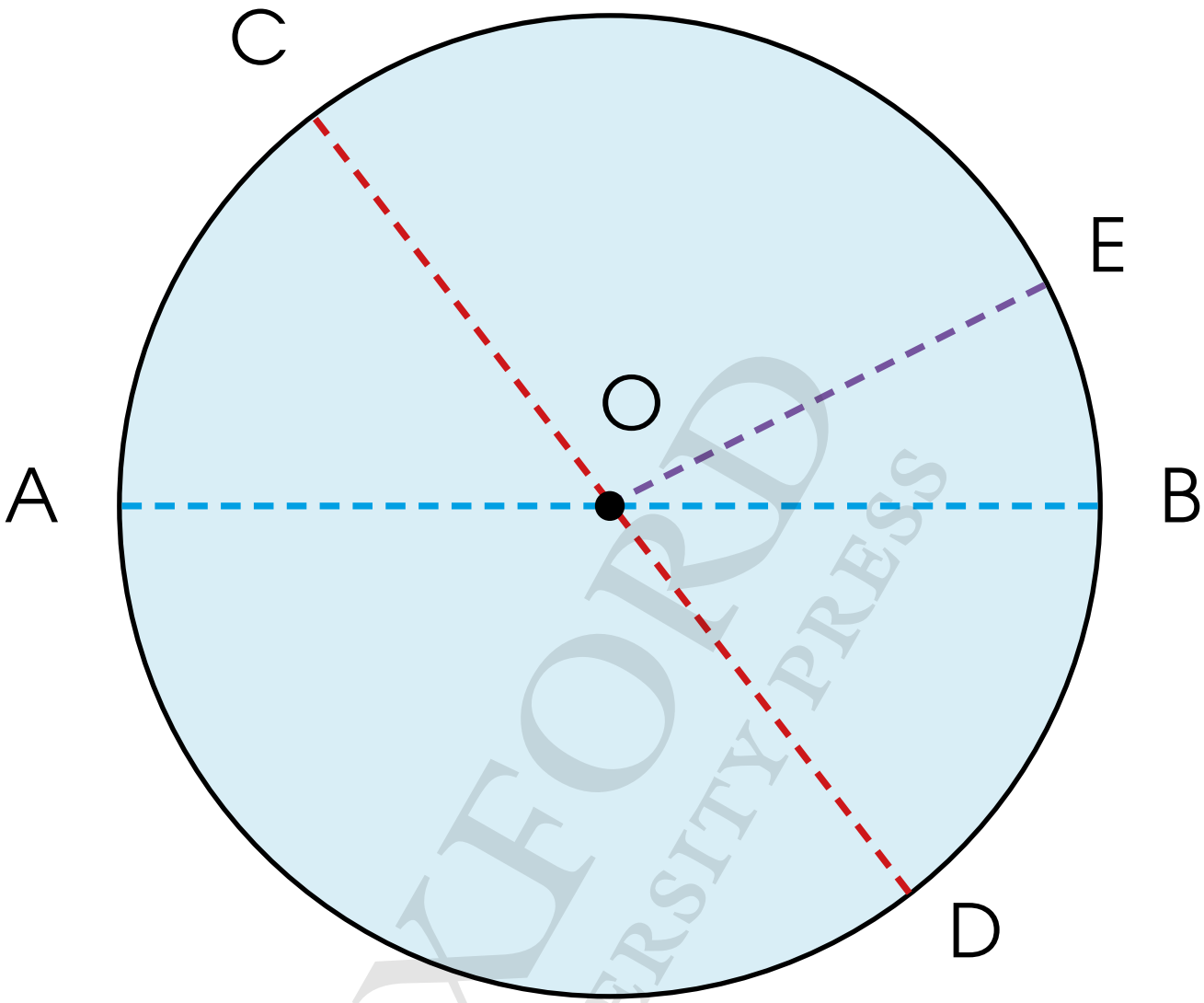
* Note to teacher:

- Cut out the table and laminate it for 'Activity Time' (Textbook 6 P106). Provide pupils with markers to fill in the table.

**Circle**

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## *Area and Circumference of Circle Formulae*

Circumference ÷ Diameter = $\pi$

Circumference = $\pi$ × Diameter

= $\pi$ × 2 × Radius

Area of circle = $\pi$ × Radius × Radius

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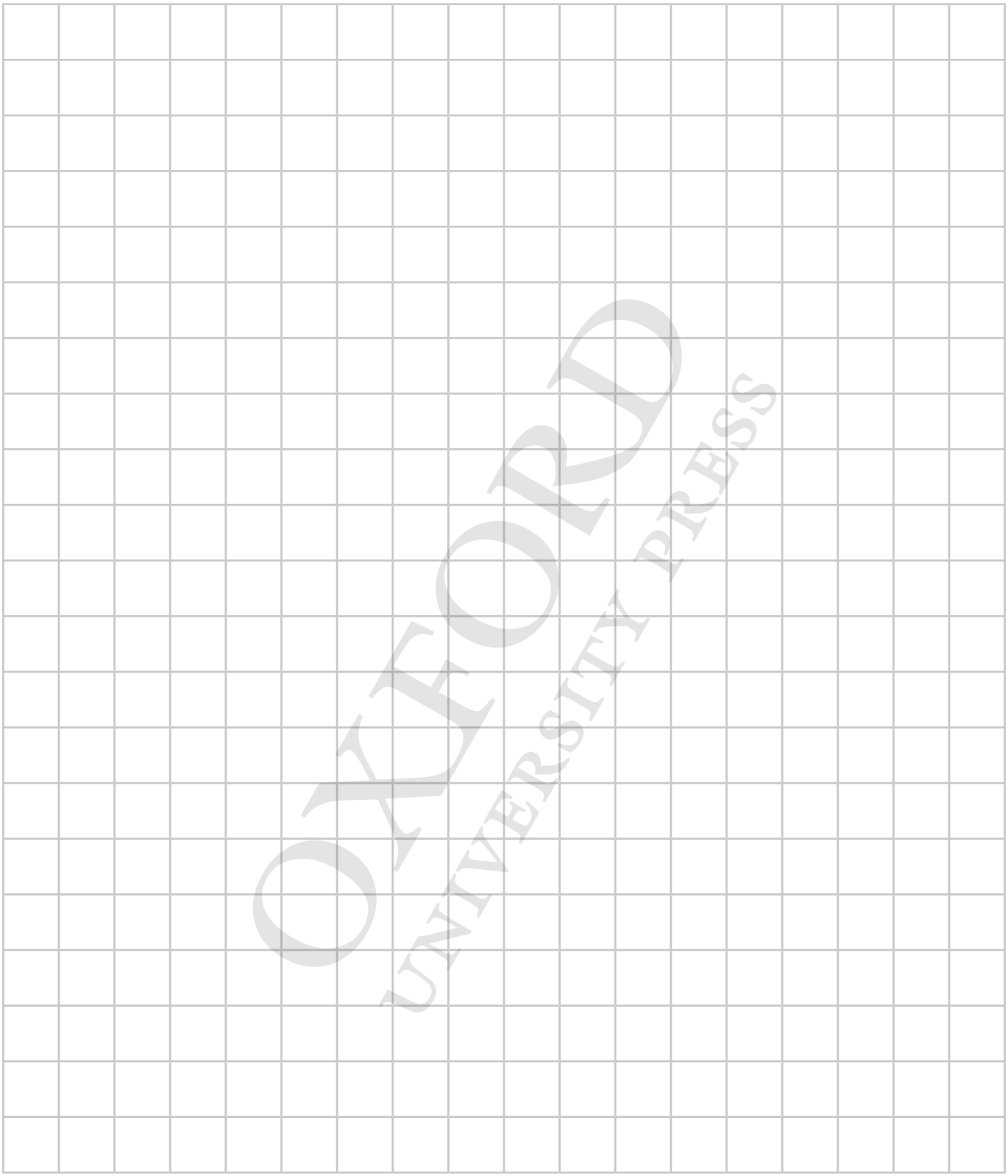
## *1-cm Square Grid*



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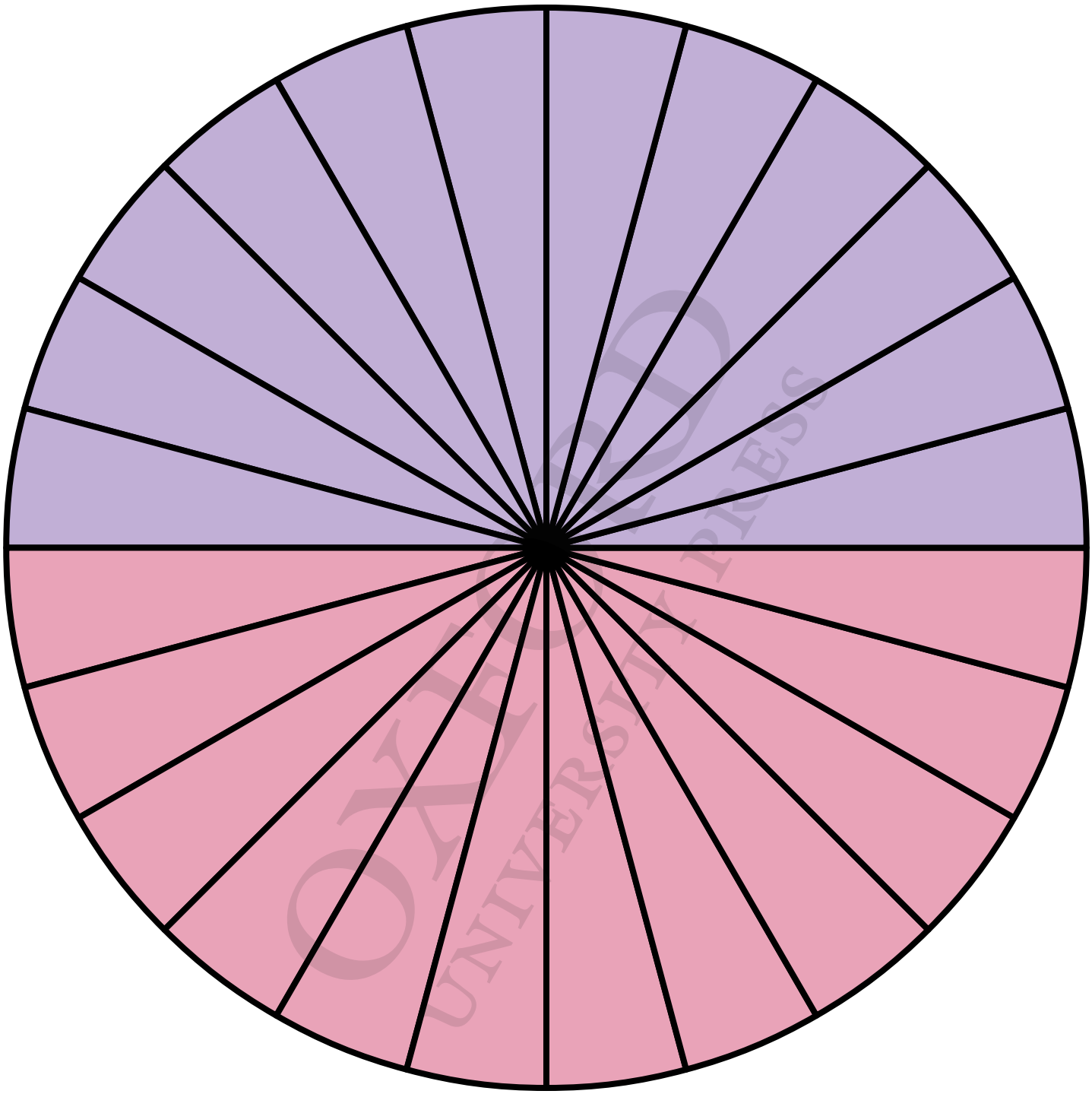
## Circle Divided into 24 Equal Pieces



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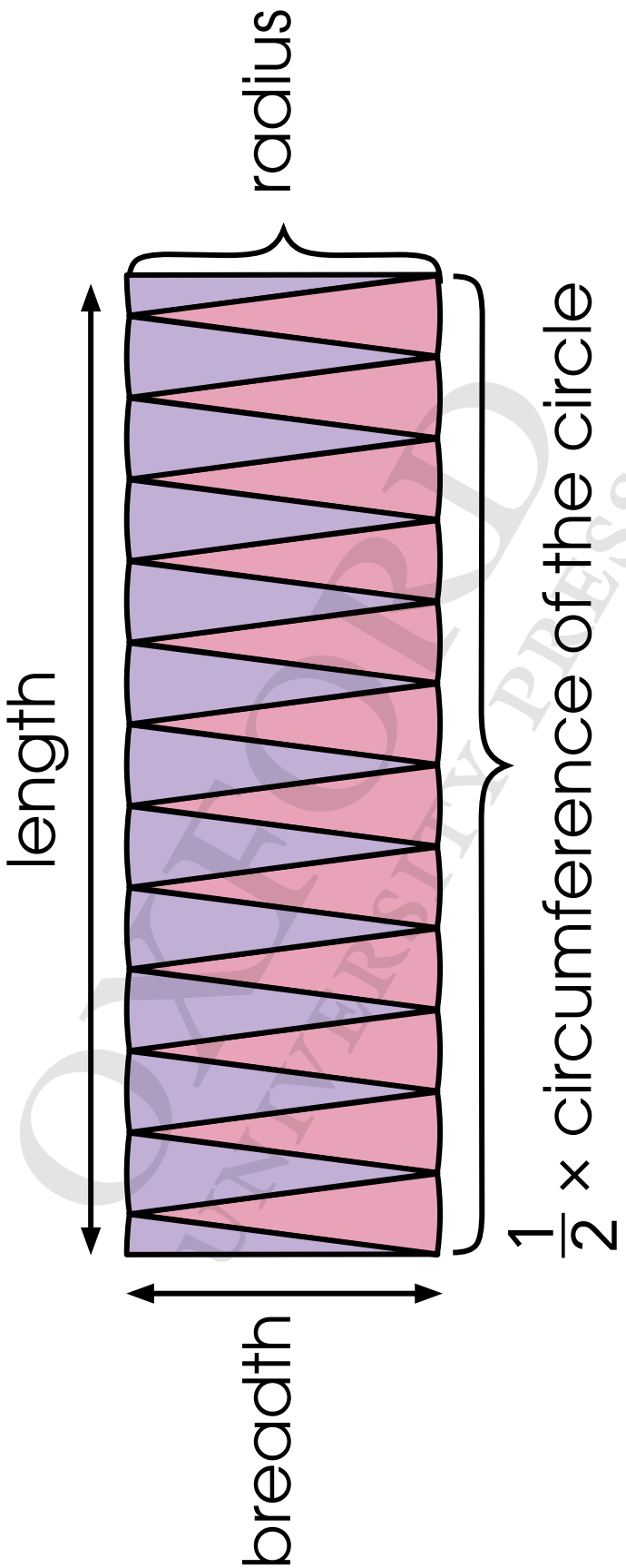
## 24 Equal Pieces of a Circle Rearranged to Form a Rectangle

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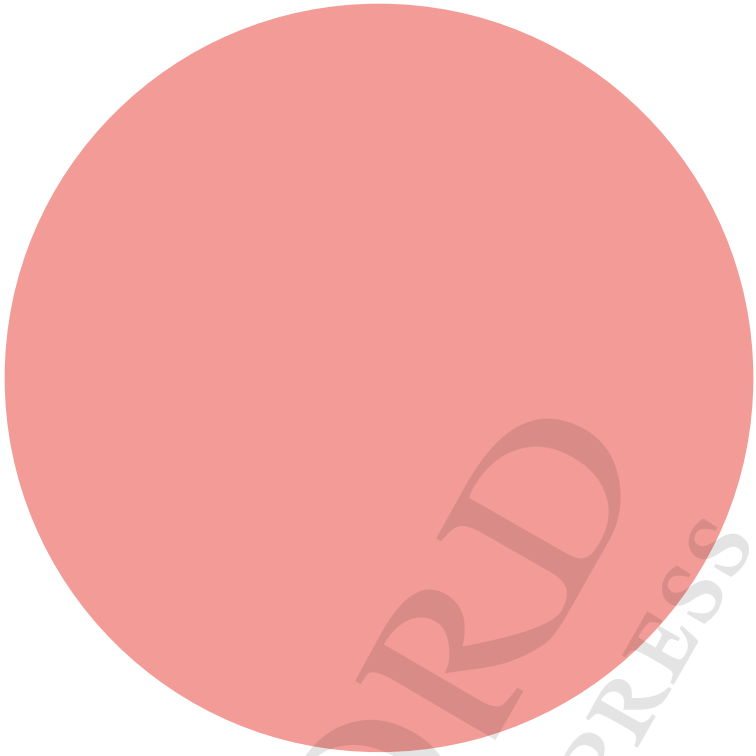
## Circle Cut-outs



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* Note to teacher:

- Cut out the shapes for 'Activity Time' (Textbook 6 P133).

## Semicircle and Quarter Circle Cut-outs

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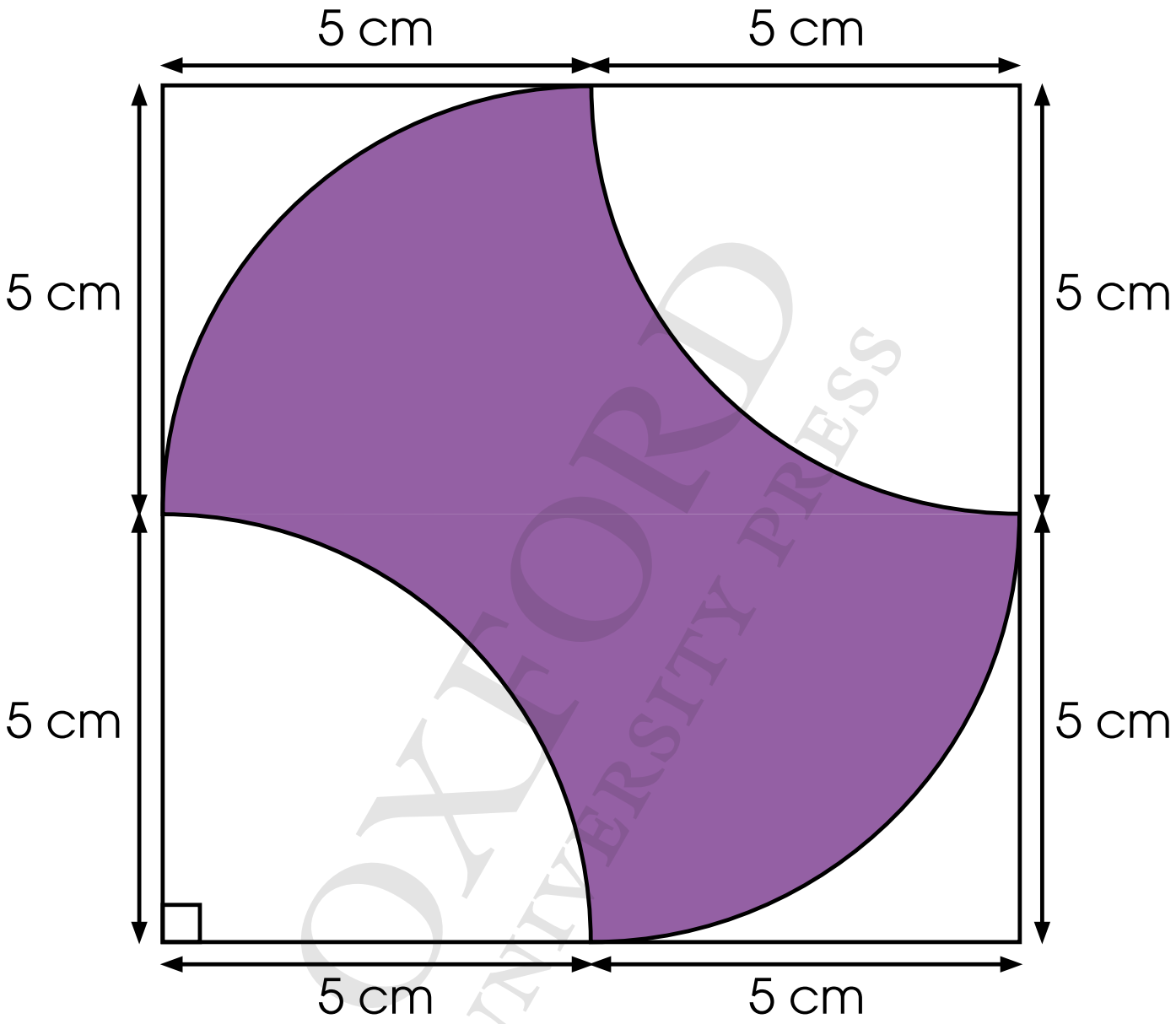
* Note to teacher:

- Cut out the shapes for 'Activity Time' (Textbook 6 P136).

## Finding Area of Shaded Part

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* Note to teacher:

- Cut out the figure for 'Mind Workout' (Textbook 6 P143).

## *Distance, Speed, Time Formulae*

$$\text{Speed} = \text{Distance} \div \text{Time}$$

$$= \frac{\text{Distance}}{\text{Time}}$$

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$\text{Time} = \text{Distance} \div \text{Speed}$$

$$= \frac{\text{Distance}}{\text{Speed}}$$

$$\text{Average Speed} = \text{Total distance} \div \text{Total time}$$

$$= \frac{\text{Total distance}}{\text{Total time}}$$

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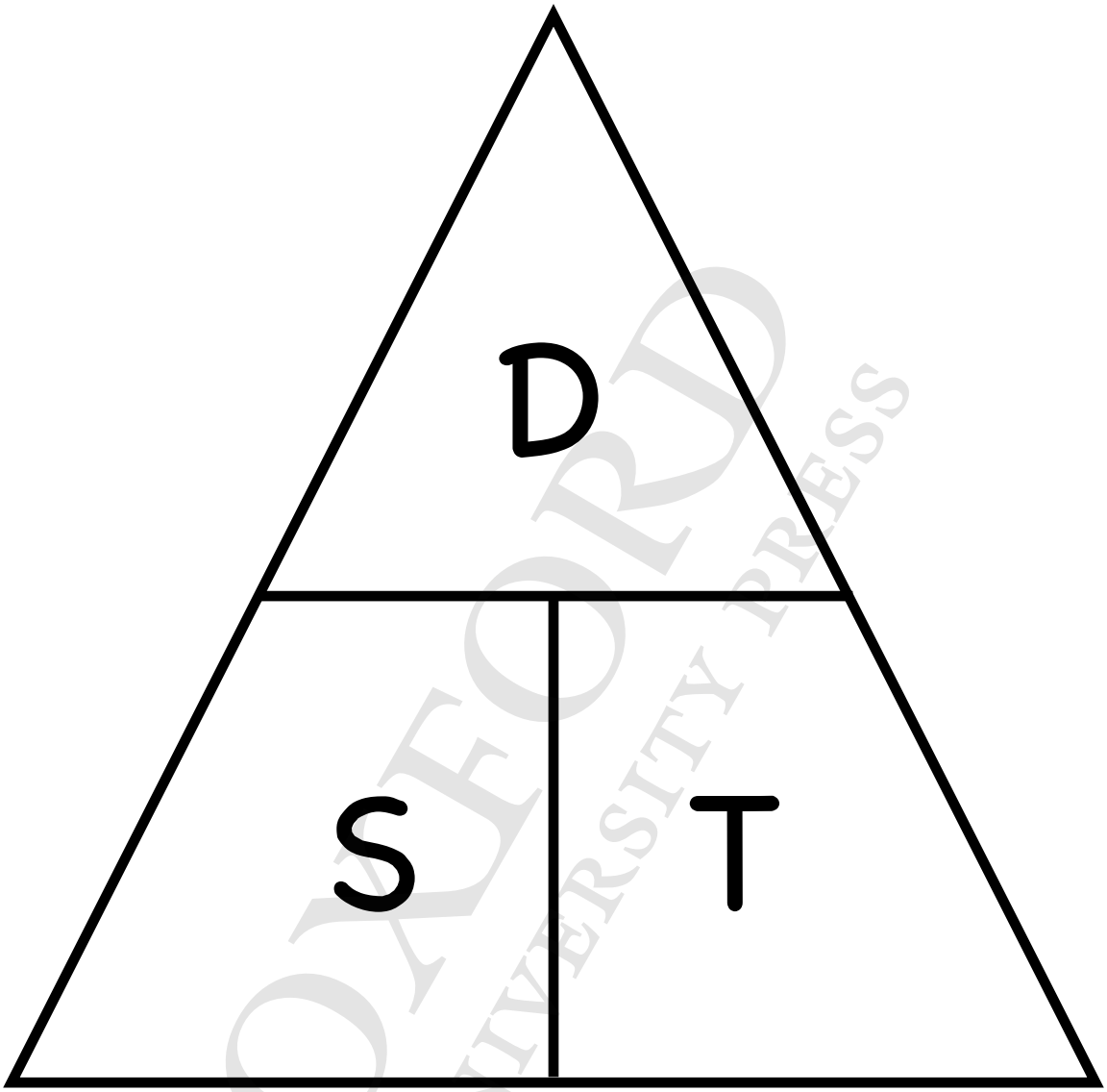
## Distance Speed Time Triangle

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## *Volume and Area Formulae*

Volume of cube = Length × Length × Length

Volume of cuboid = Length × Breadth × Height

$$\text{Height} = \frac{\text{Volume}}{\text{Length} \times \text{Breadth}}$$

$$\text{Length} = \frac{\text{Volume}}{\text{Breadth} \times \text{Height}}$$

Area = Length × Breadth

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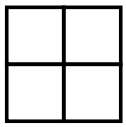
## *Table of Values*

| Base area of cube | Volume of cube | Length of edge |
|---|---|---|
| $1 \times 1 = 1\ cm^2$ | $1 \times 1 \times 1 = 1\ cm^3$ | 1 cm |
|  $2 \times 2 = 4\ cm^2$ | | |
| $3 \times 3 =$ _____ $cm^2$ | | |
| $4 \times 4 =$ _____ $cm^2$ | | |

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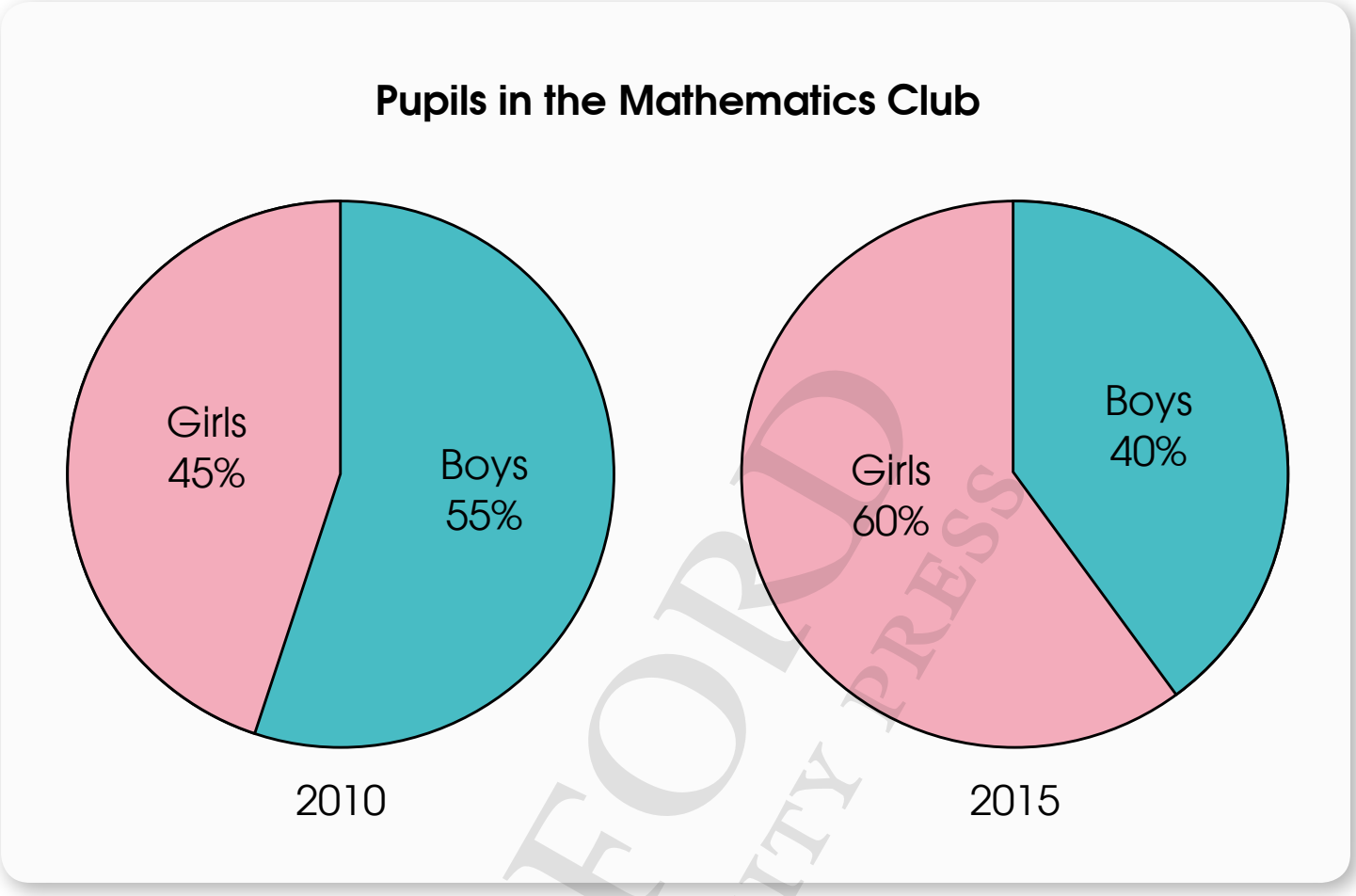
* Note to teacher:

- Cut out the table and laminate it for 'Activity Time' (Textbook 6 P177). Provide pupils with markers to fill in the table.

## Pie Charts

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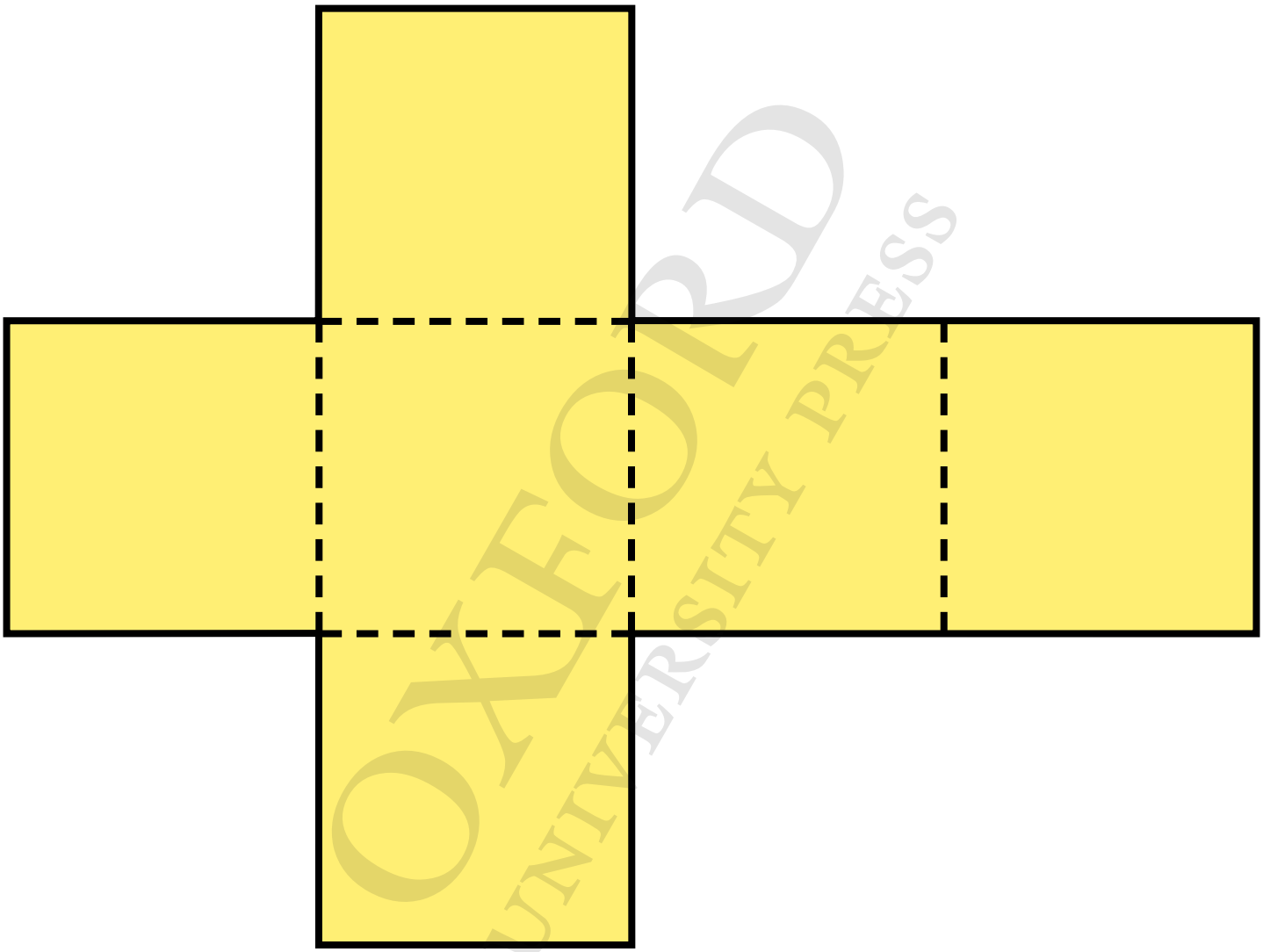
* Note to teacher:

- *These pie charts are to be used for 'Maths Journal' (Textbook 6 P209).*

## Net of a Cube



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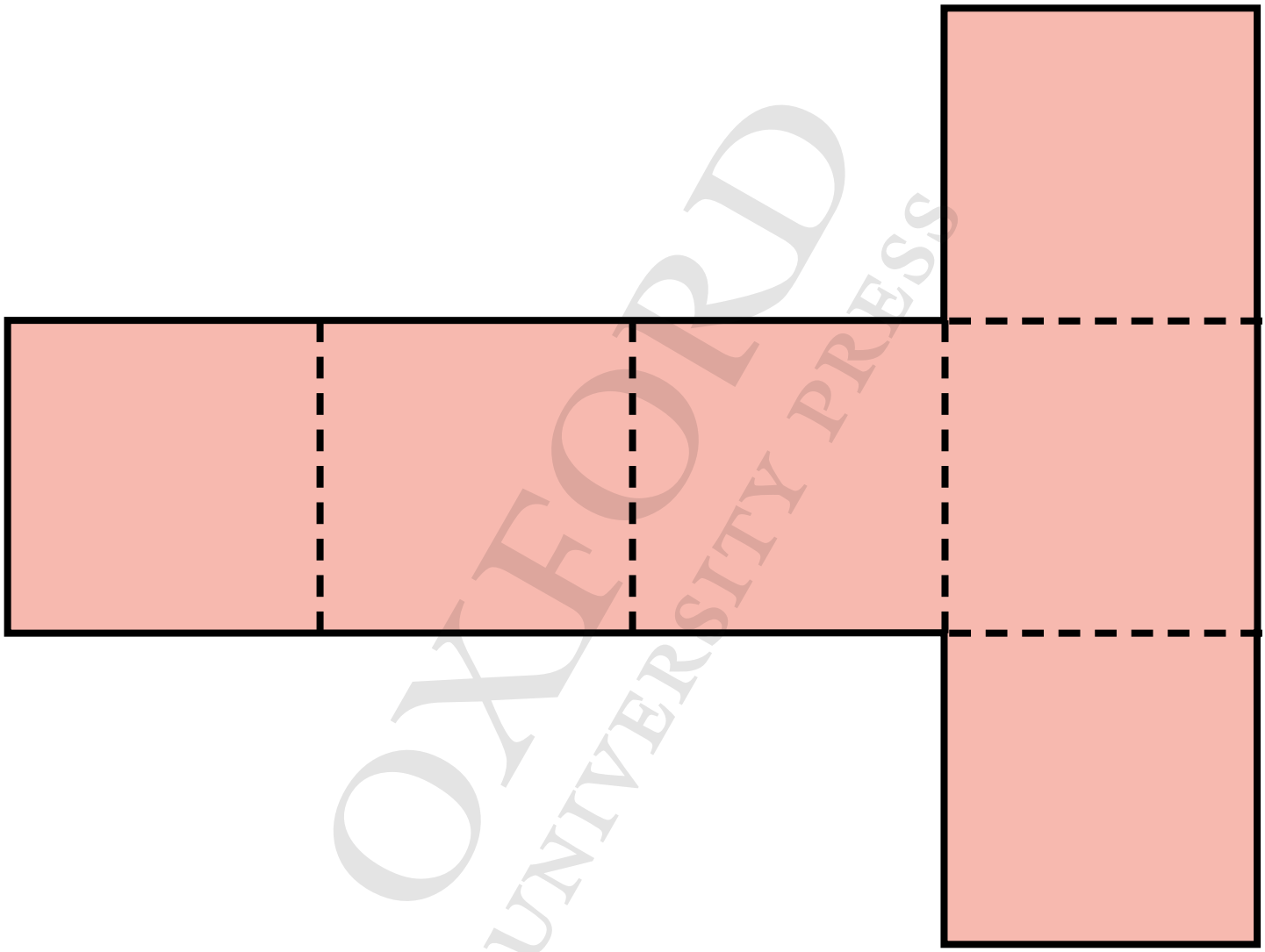
## Net of a Cube



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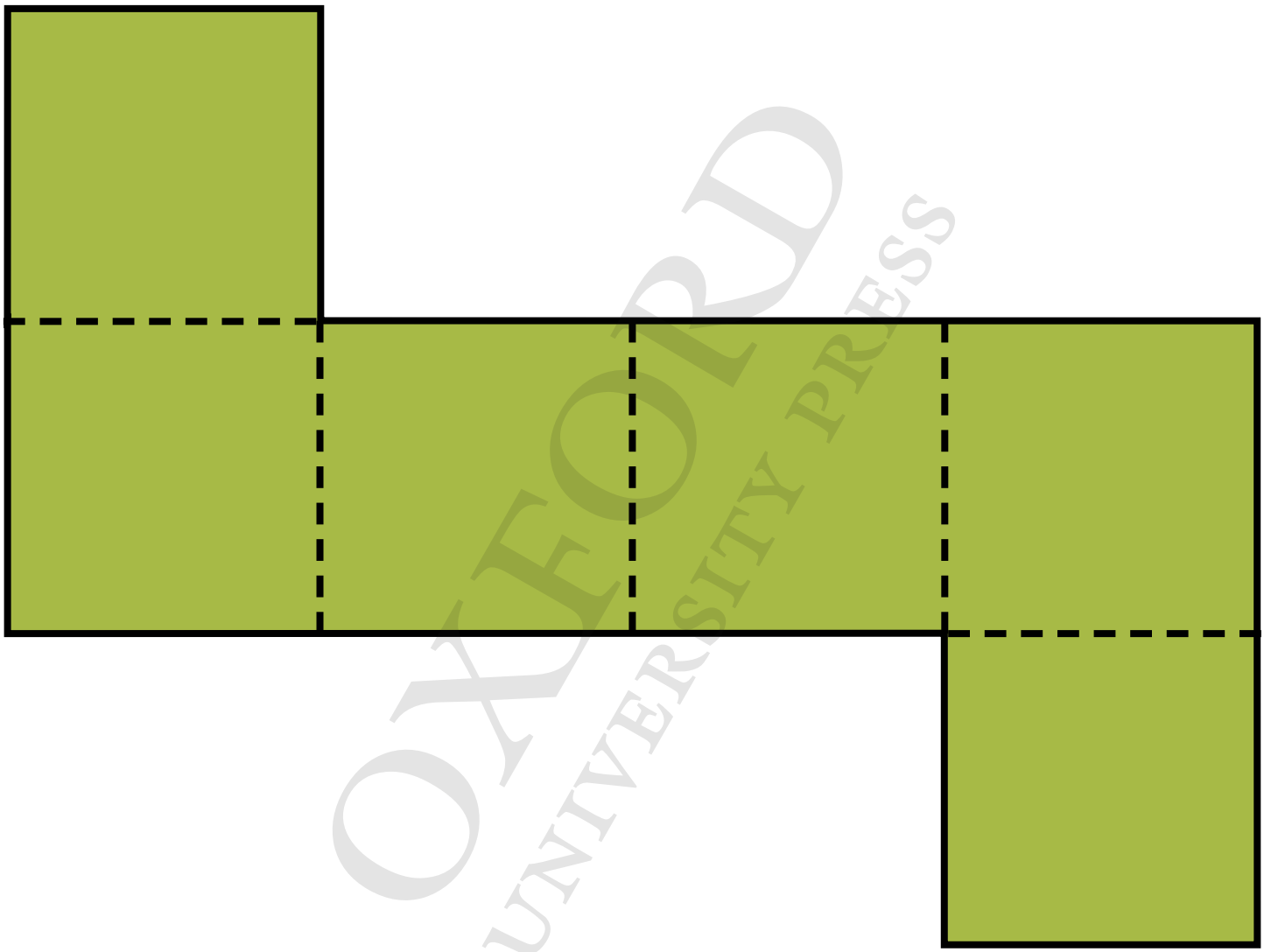
## Net of a Cube



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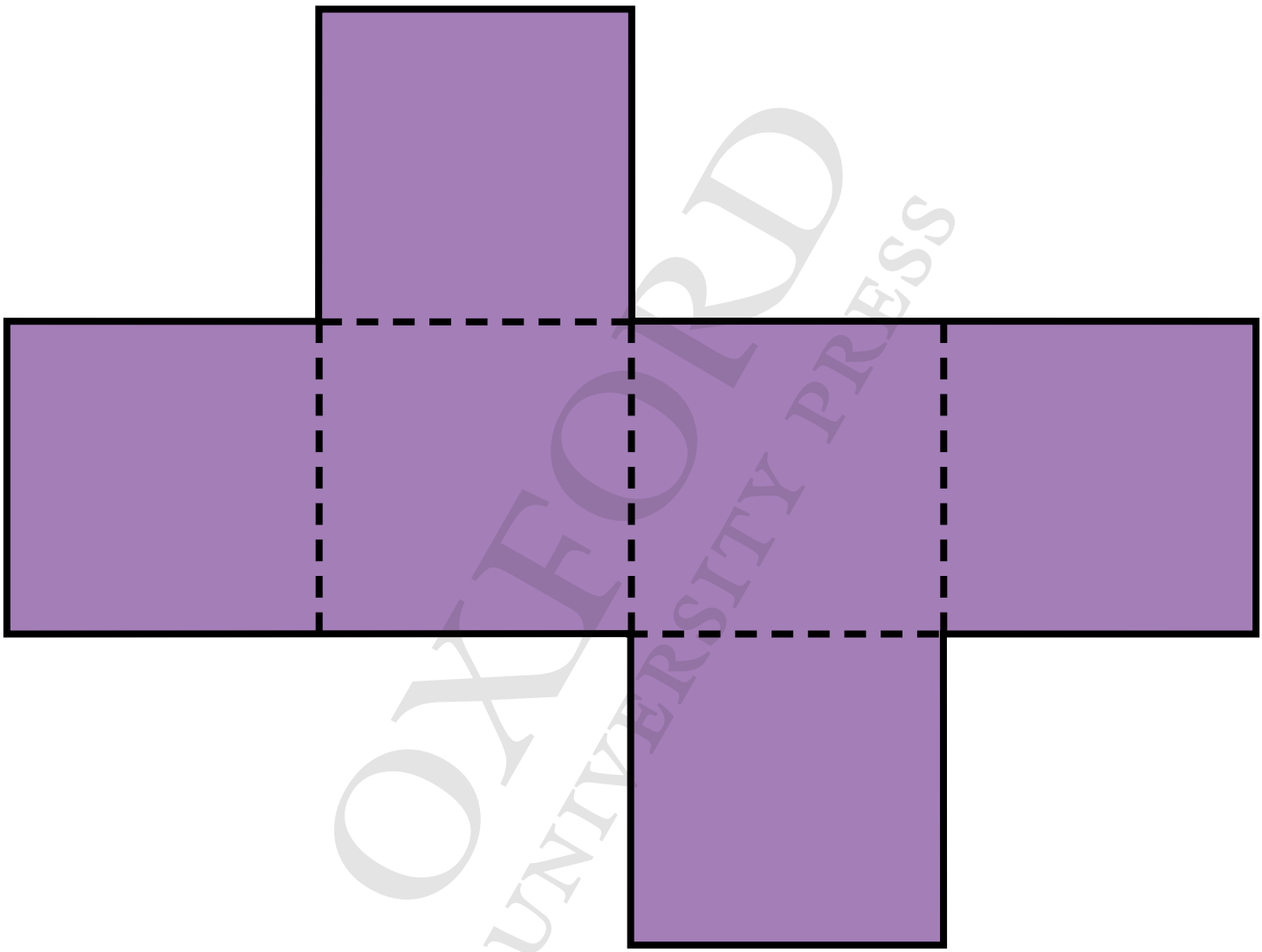
## Net of a Cube



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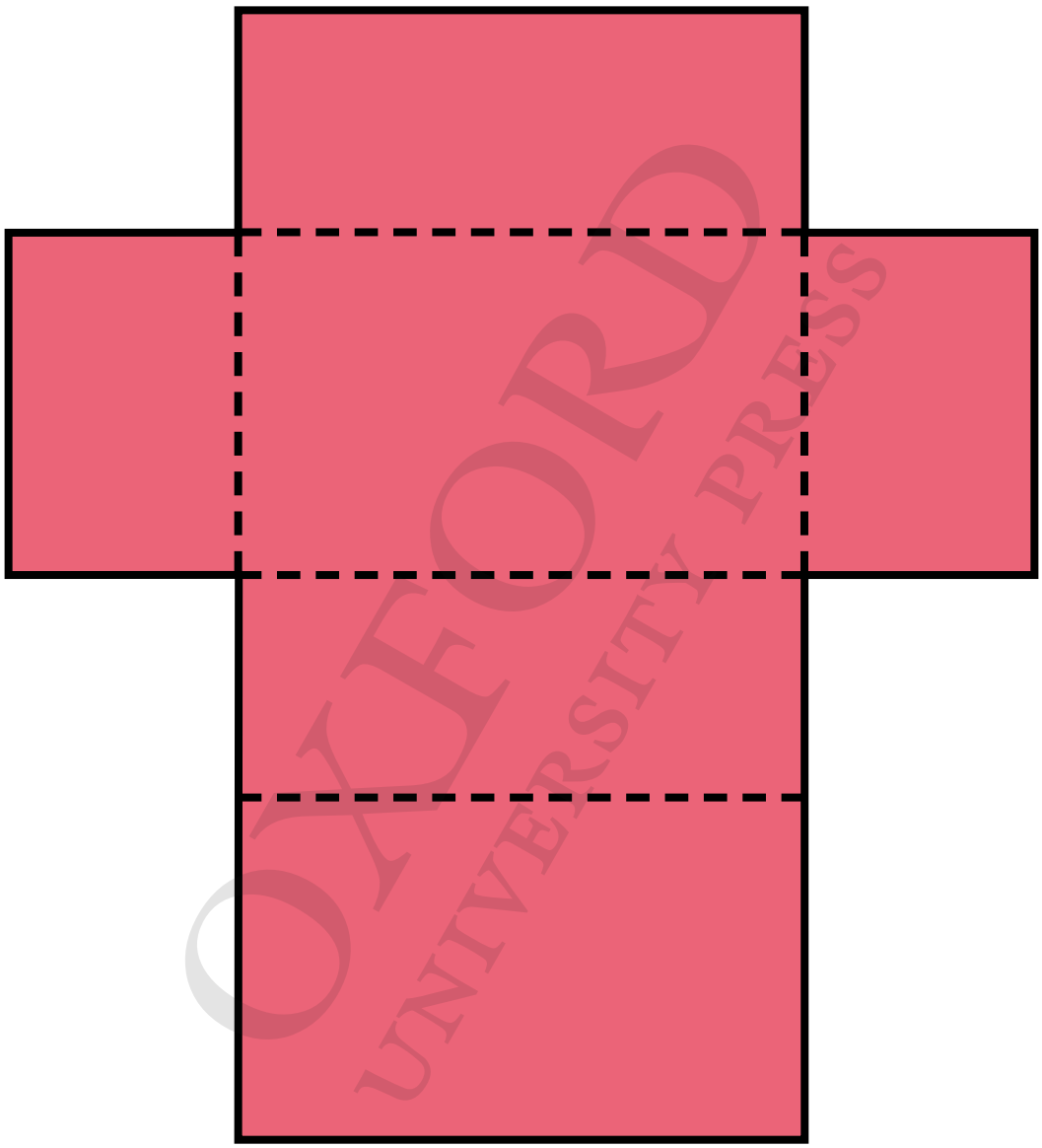
## Net of a Cuboid



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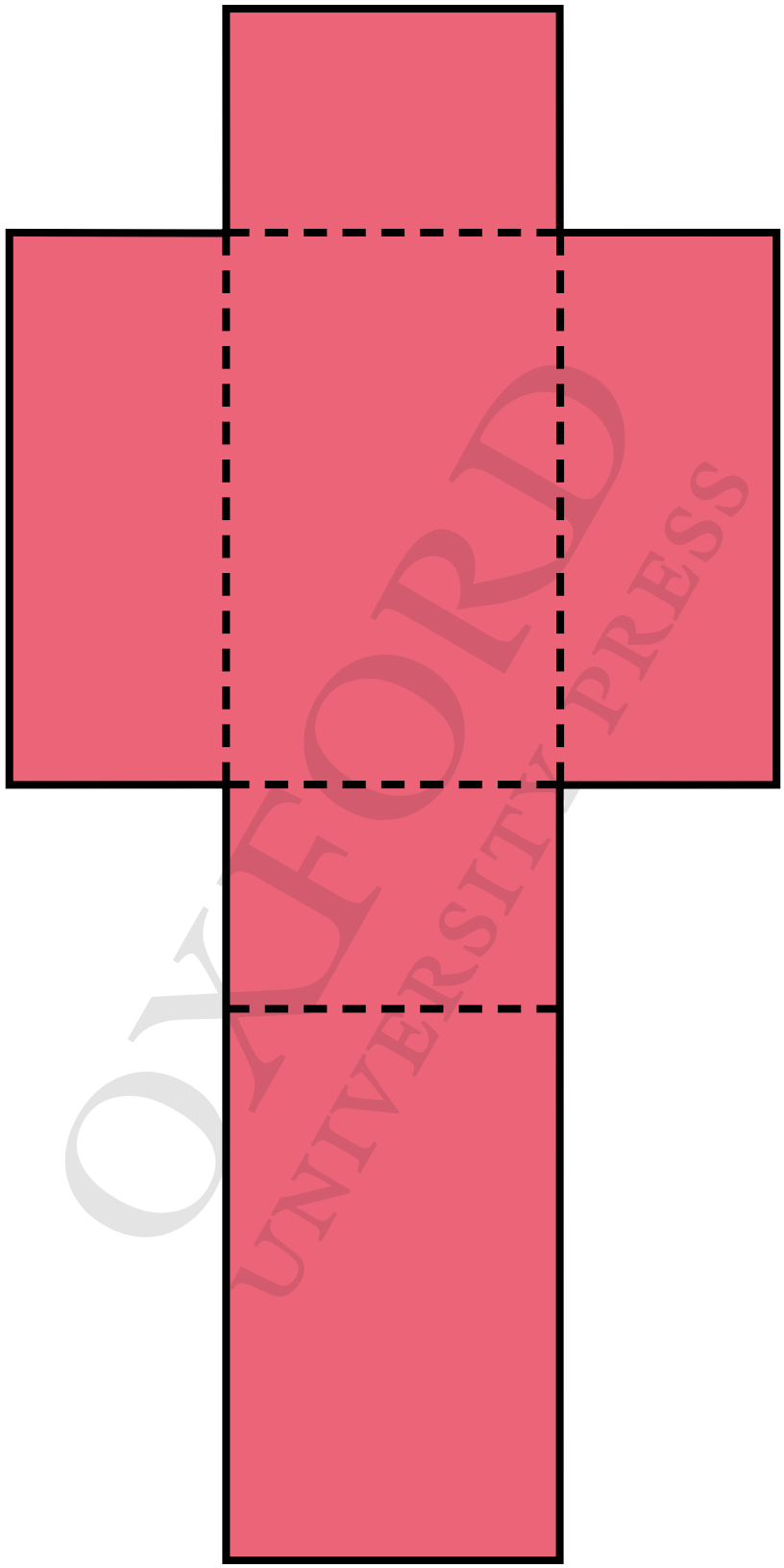
## Net of a Cuboid



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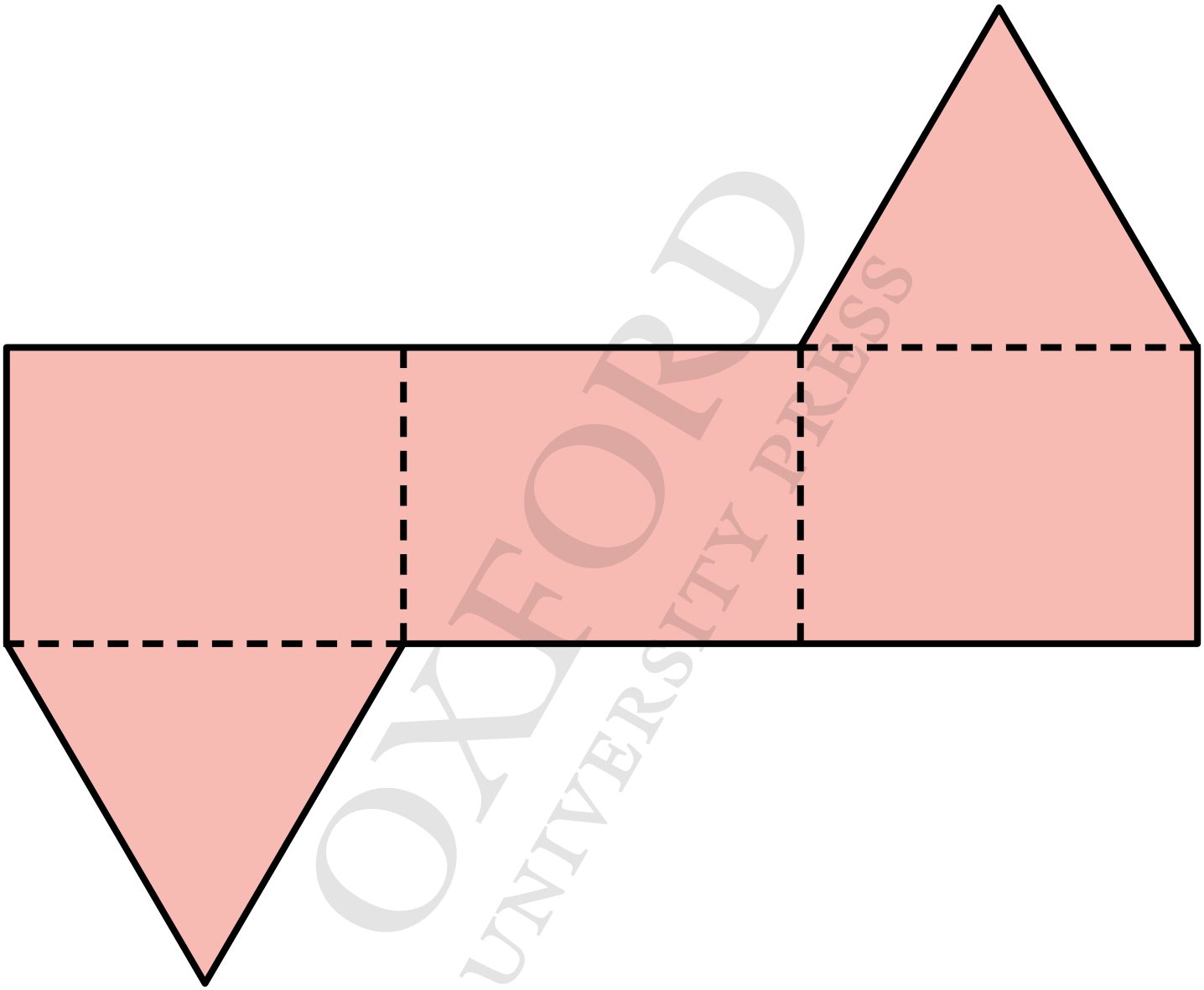
## Net of a Triangular Prism



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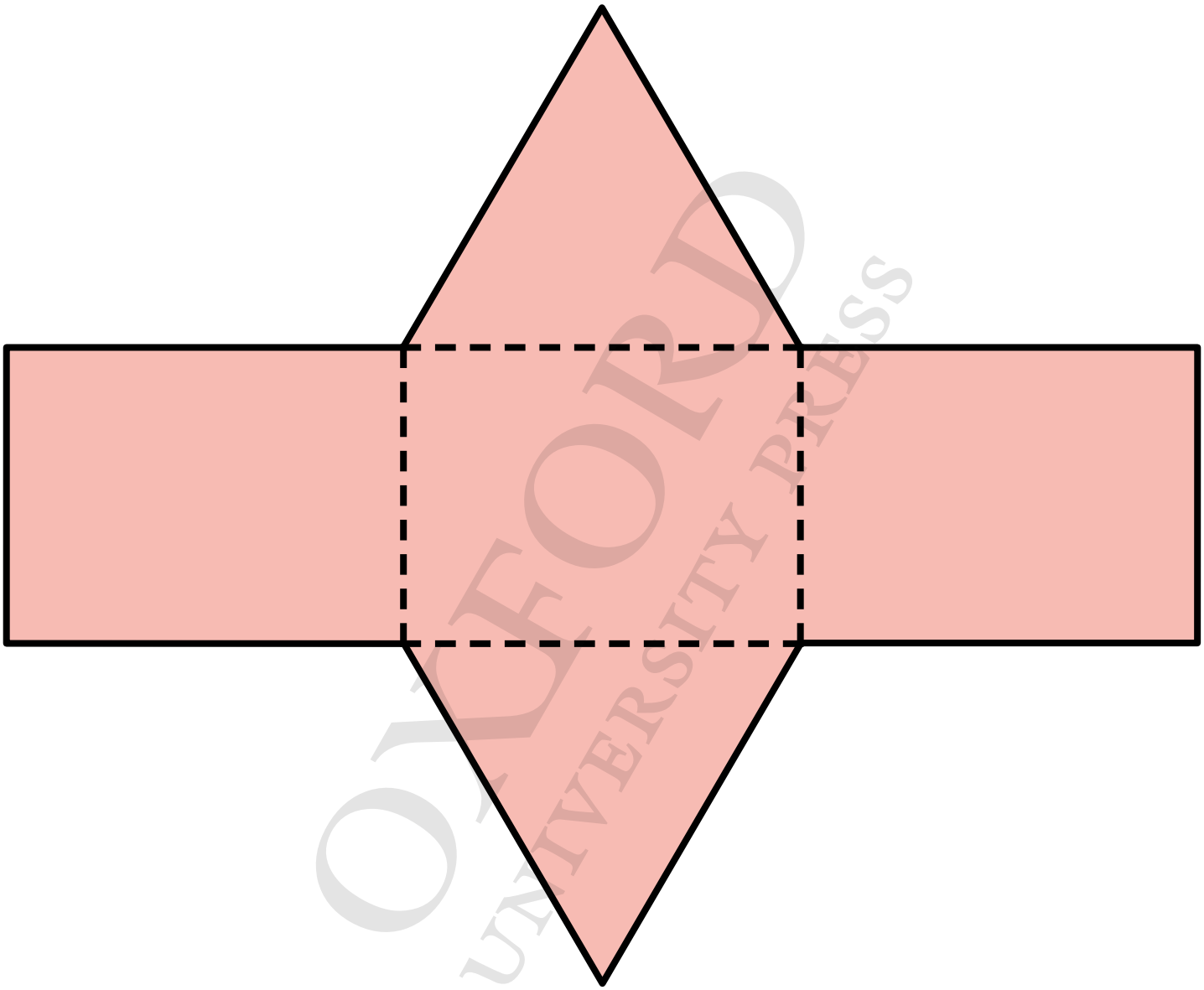
## *Net of a Triangular Prism*



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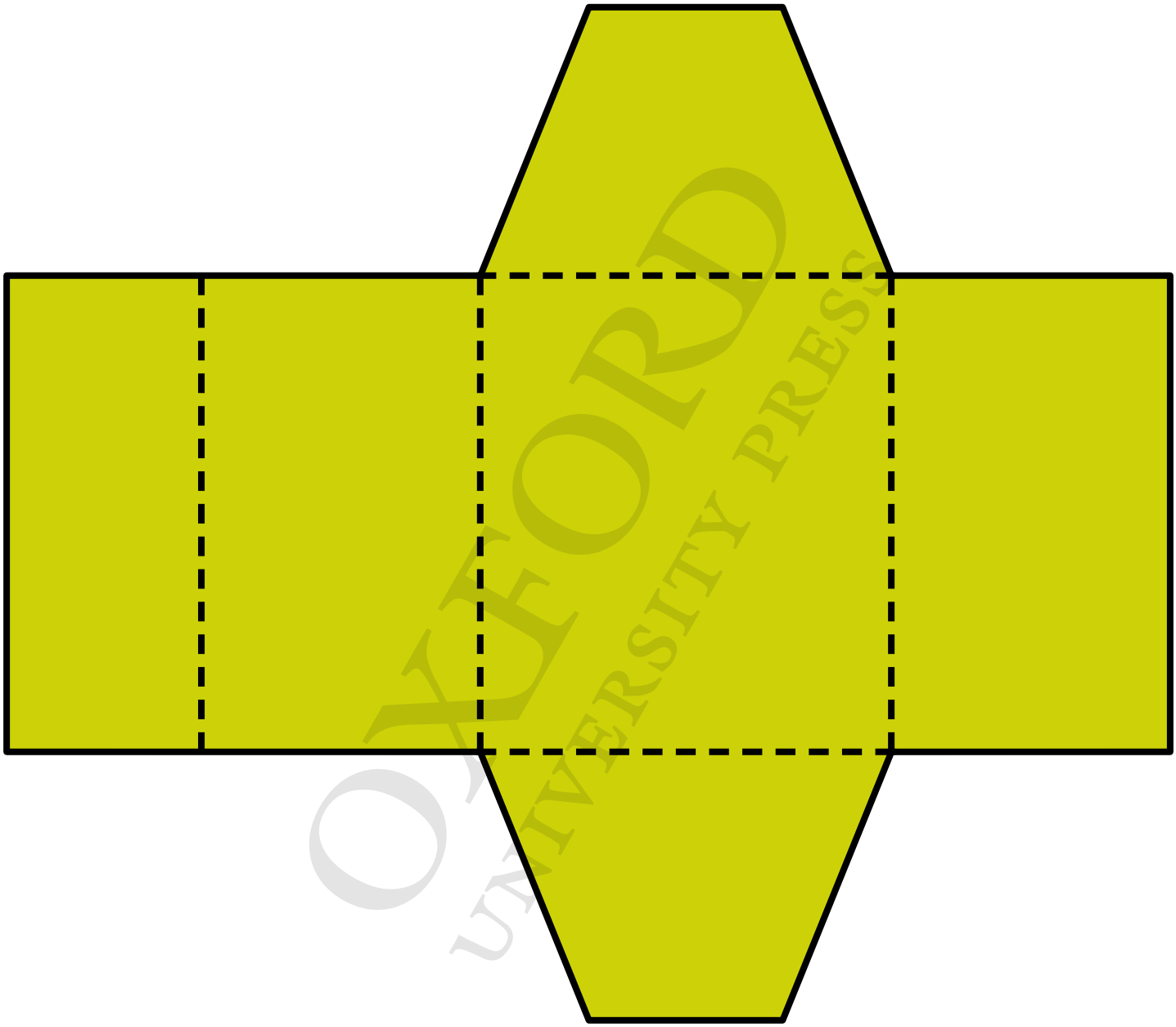
## Net of a Trapezoidal Prism



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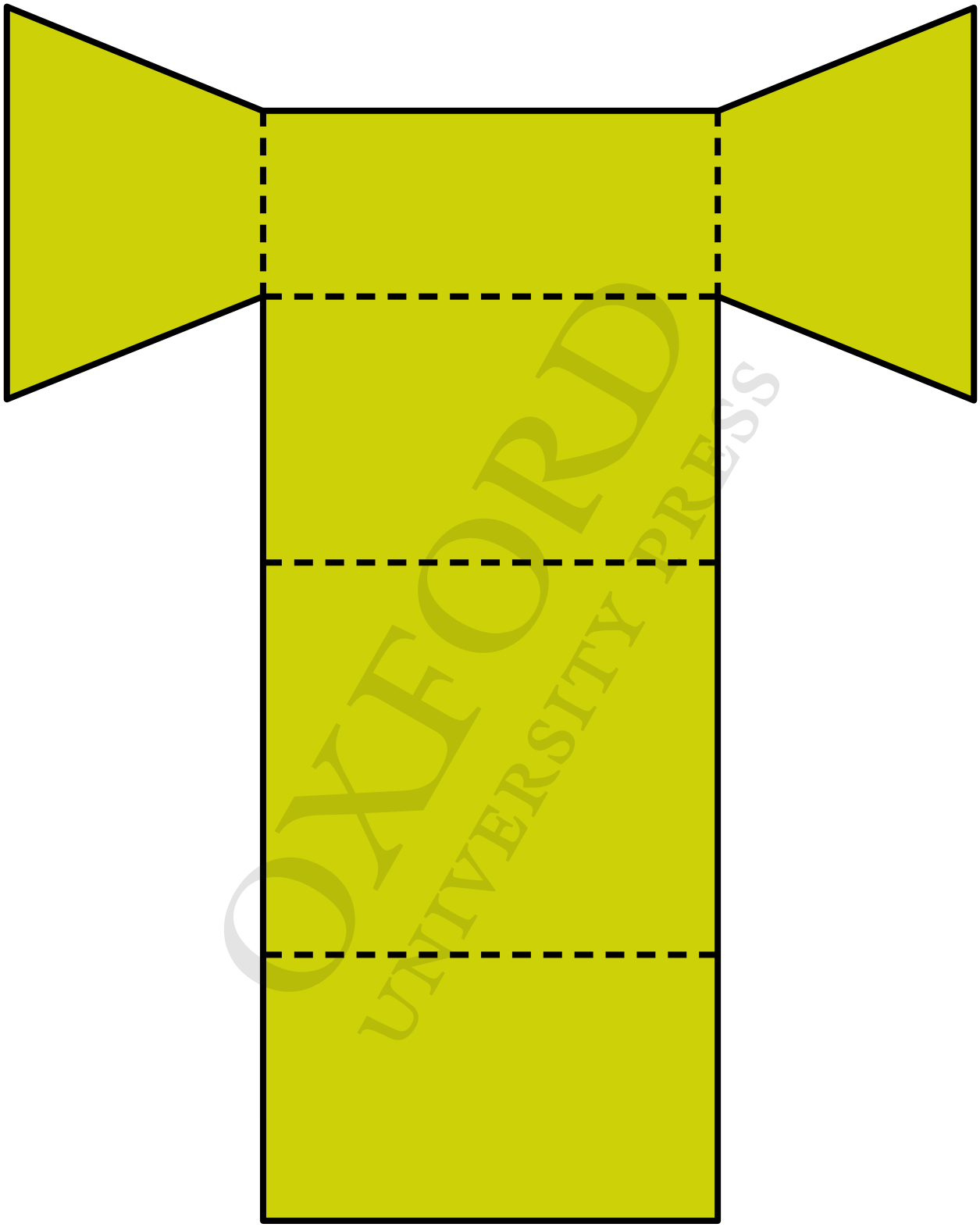
## Net of a Trapezoidal Prism



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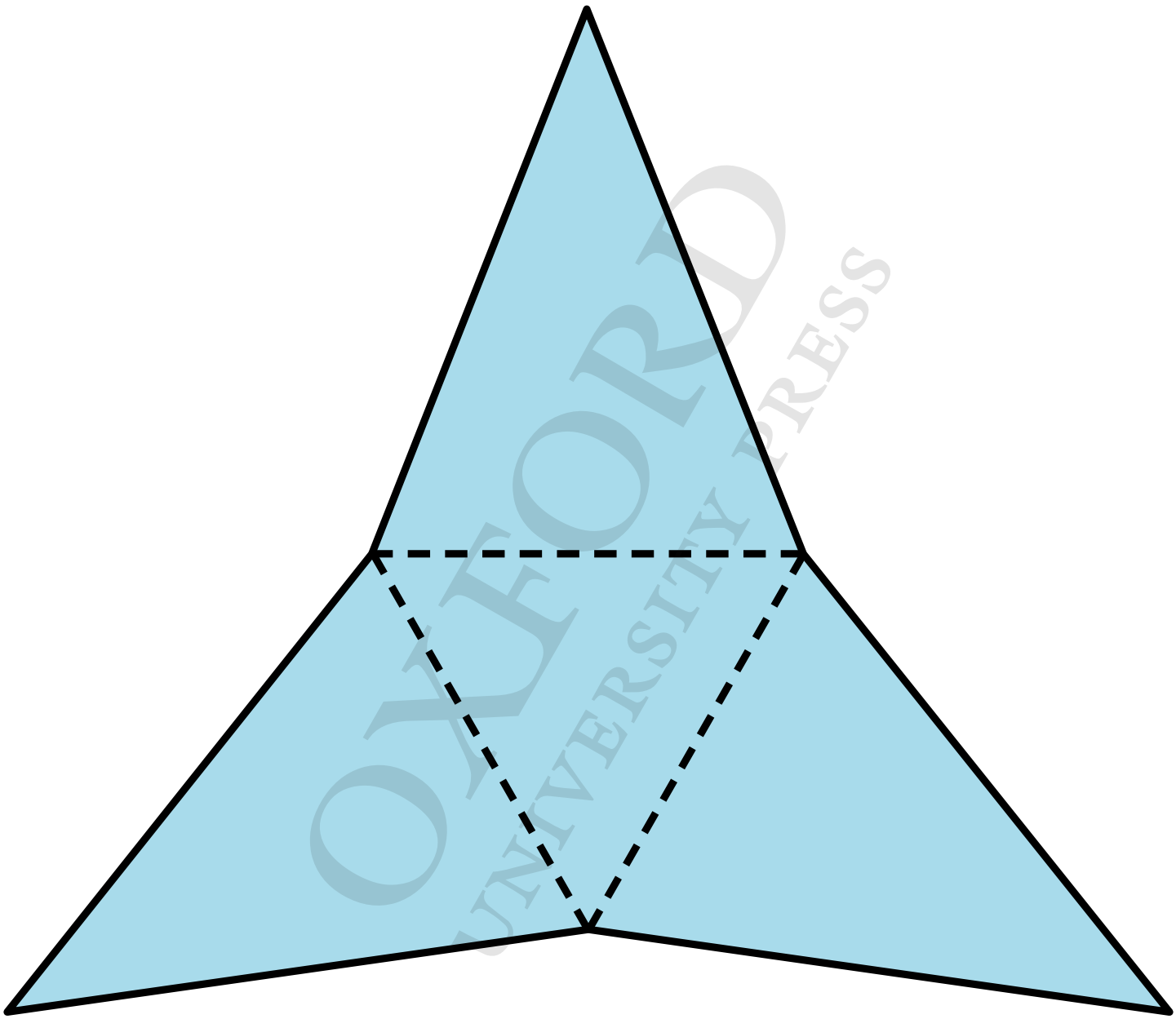
## Net of a Triangular Pyramid



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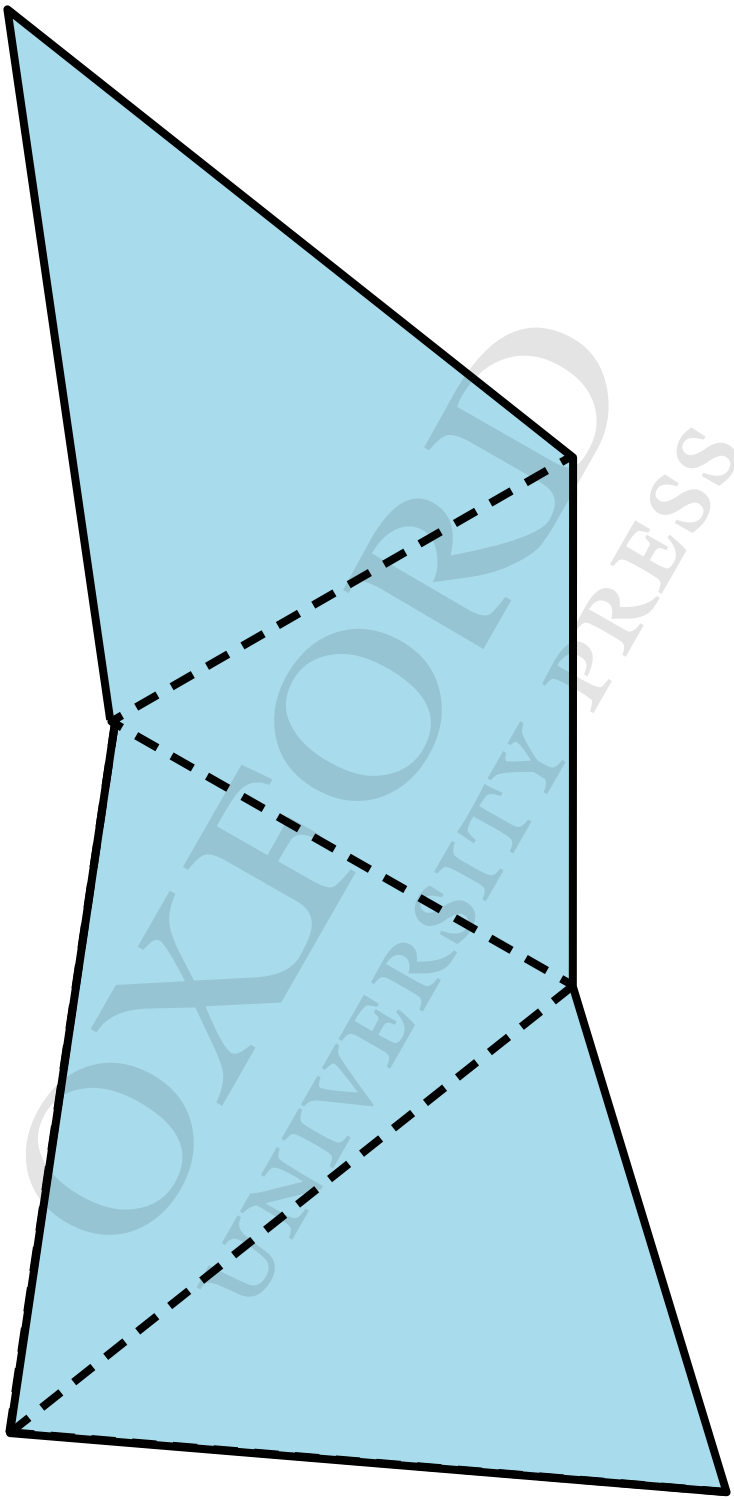
## Net of a Triangular Pyramid



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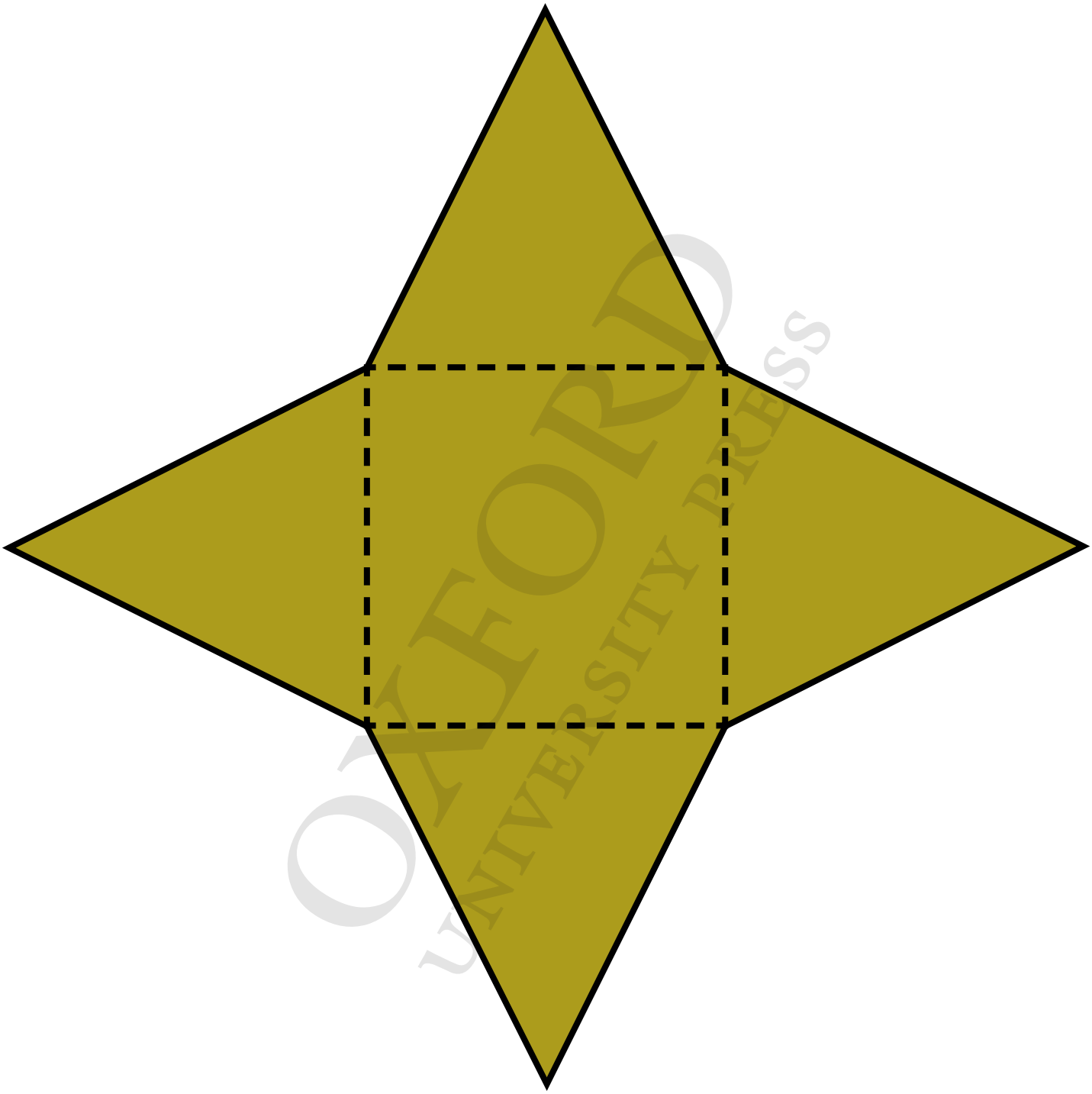
## Net of a Square Pyramid



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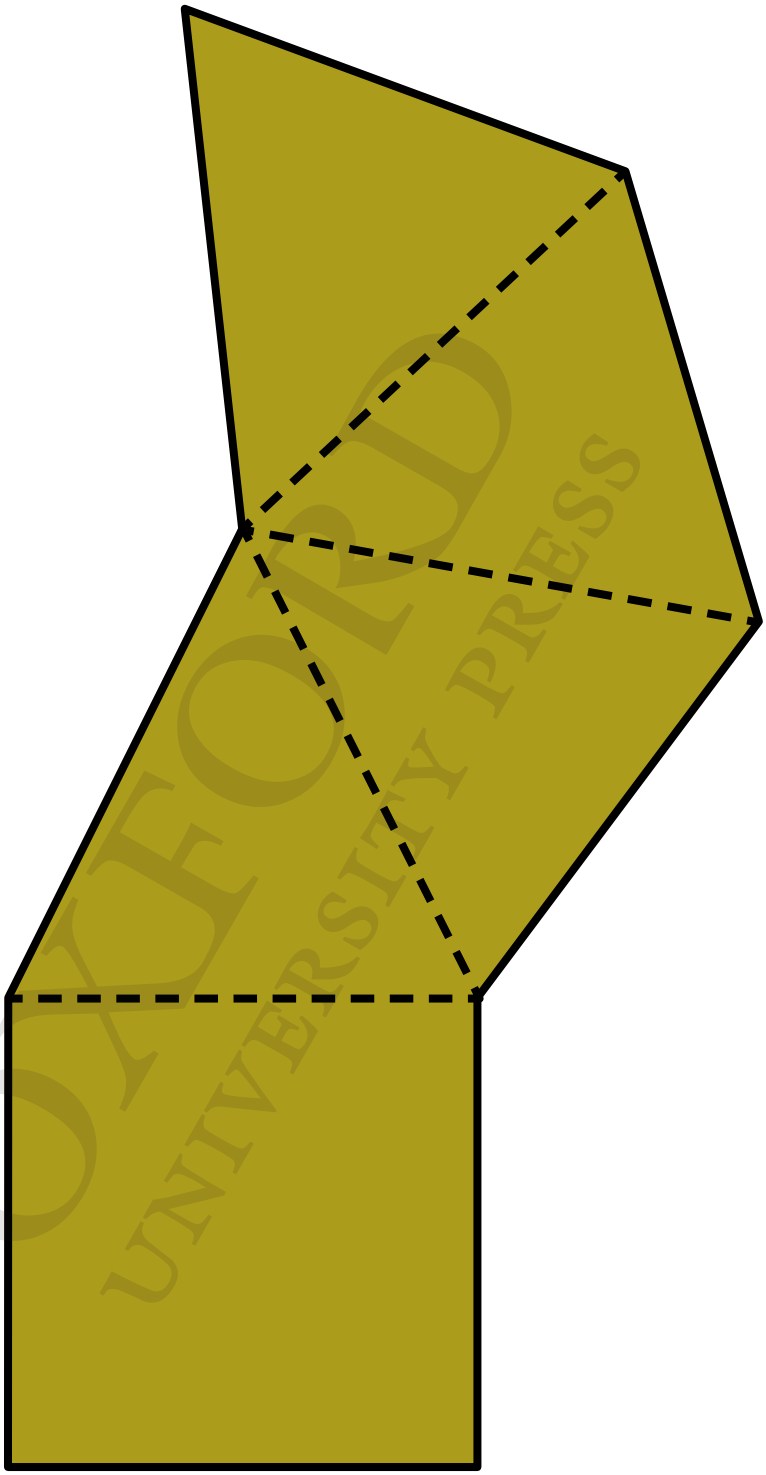
## Net of a Square Pyramid



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# Notes

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