OXFORD

New Syllabus

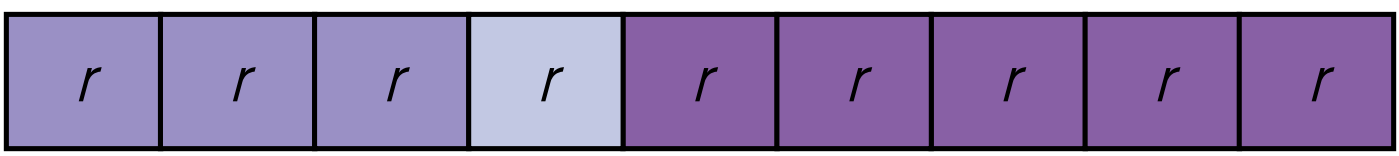
PRIMARY MATHEMATICS

Activity Handbook

6

Consultant and Author: **Shazia Asad**

Algebraic Bars

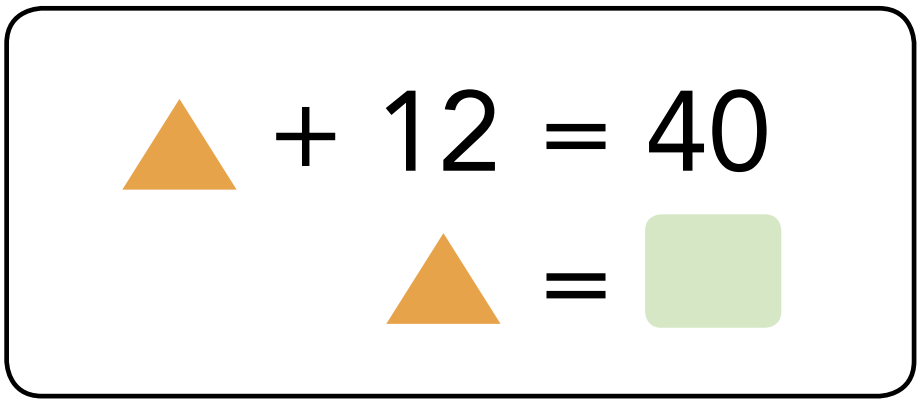


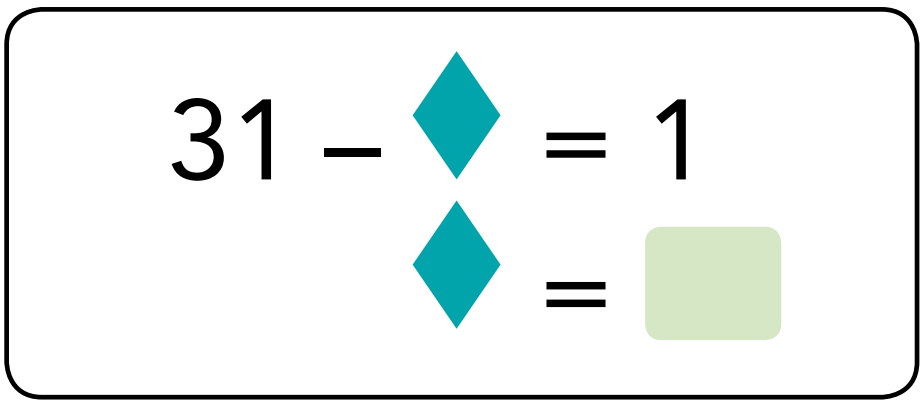
$$9 + b = 9 + \square$$
$$= \square$$

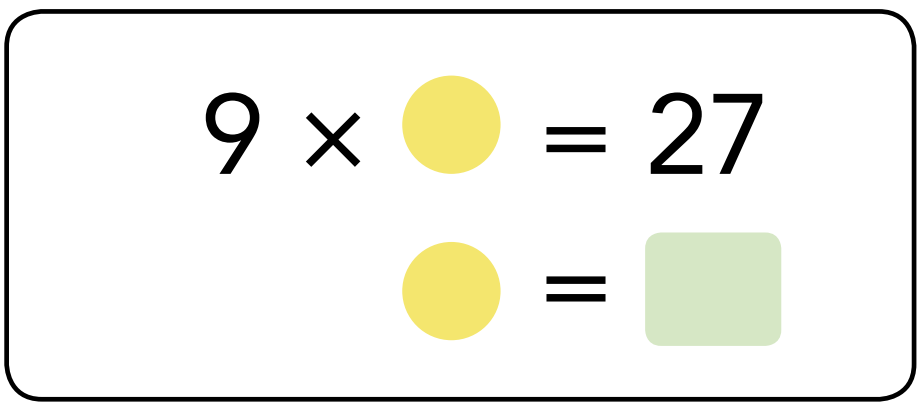
$$3c + 15 = 3 \times \square + 15$$
$$= \square + 15$$
$$= \square$$

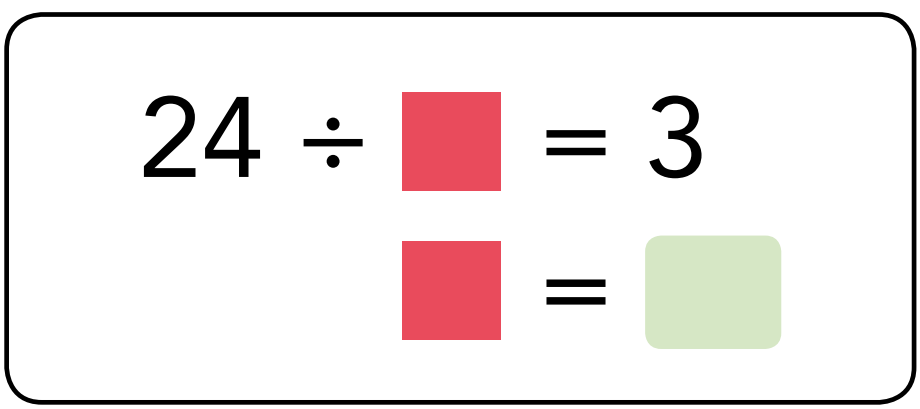
$$20 - 2d = 20 - 2 \times \square$$
$$= \square \bullet \square$$
$$= \square$$

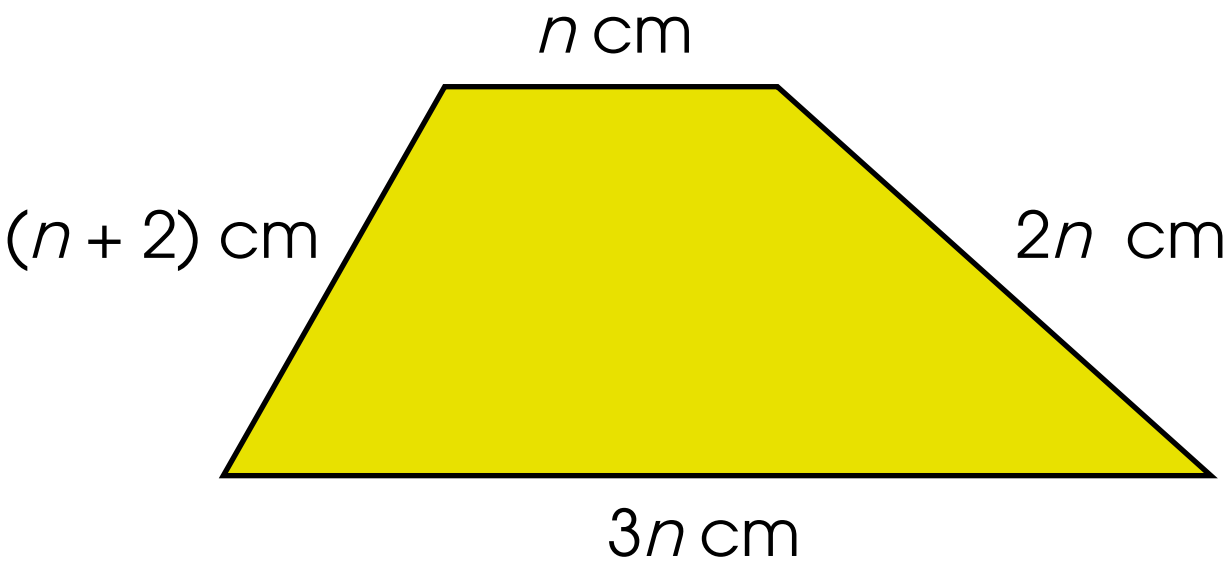
Solving Equations Cards

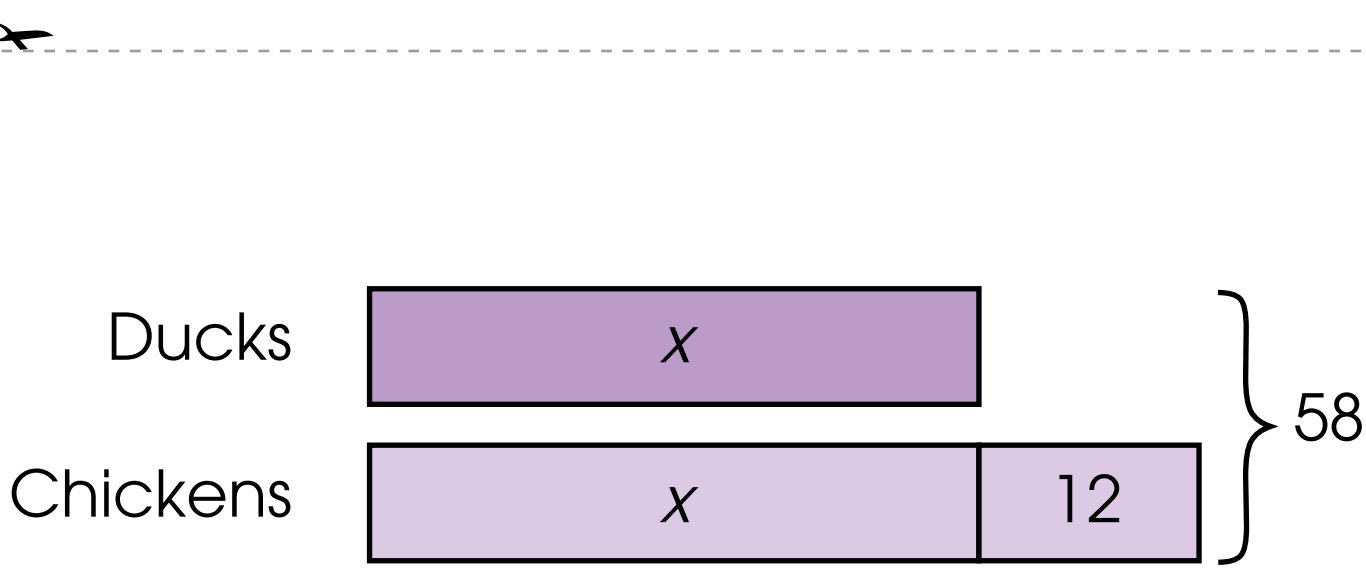




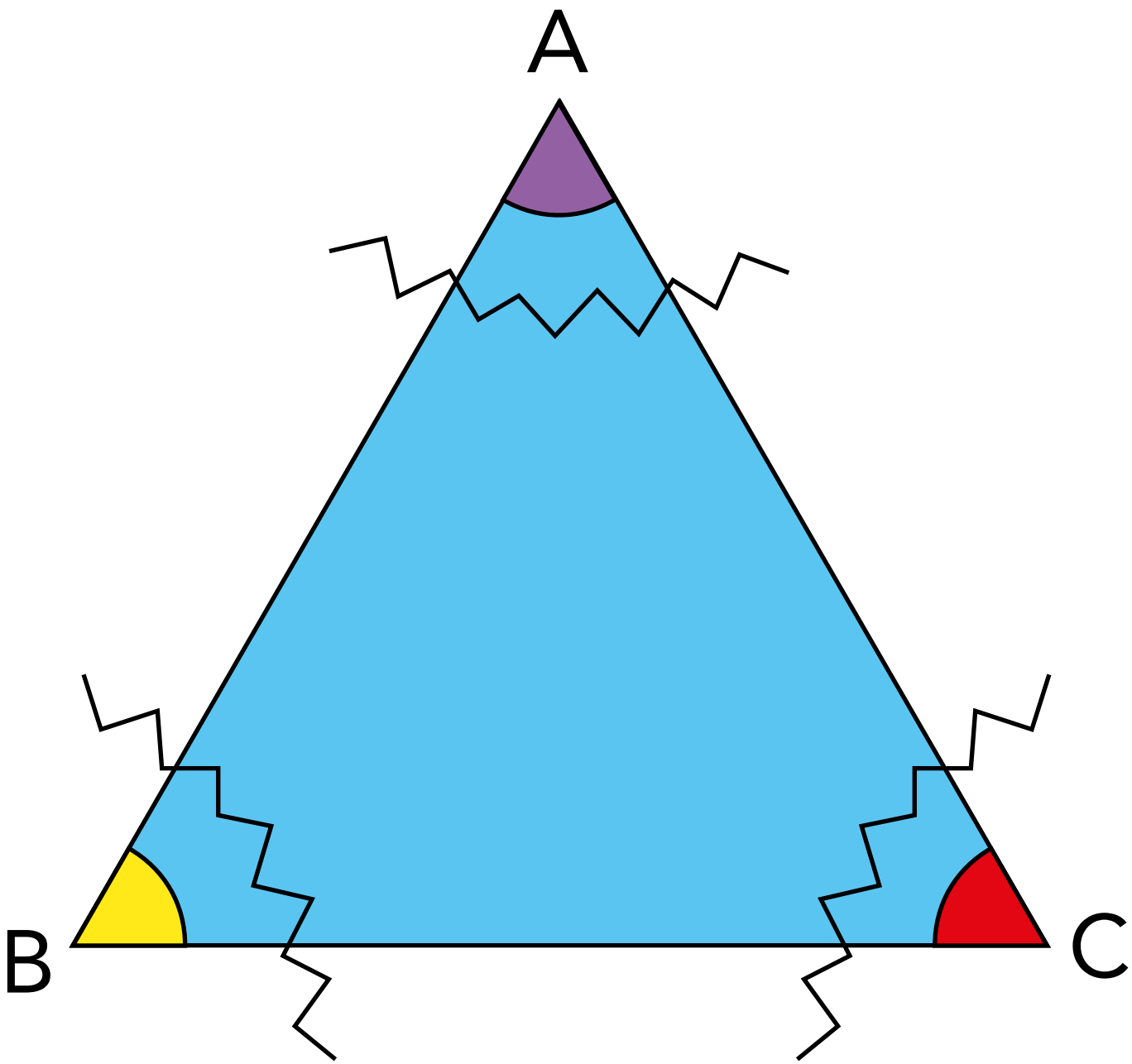





n cm
(n + 2) cm
2n cm
3n cm


Ducks
x
Chickens
x
12
58

Triangle (Sum of Angles)



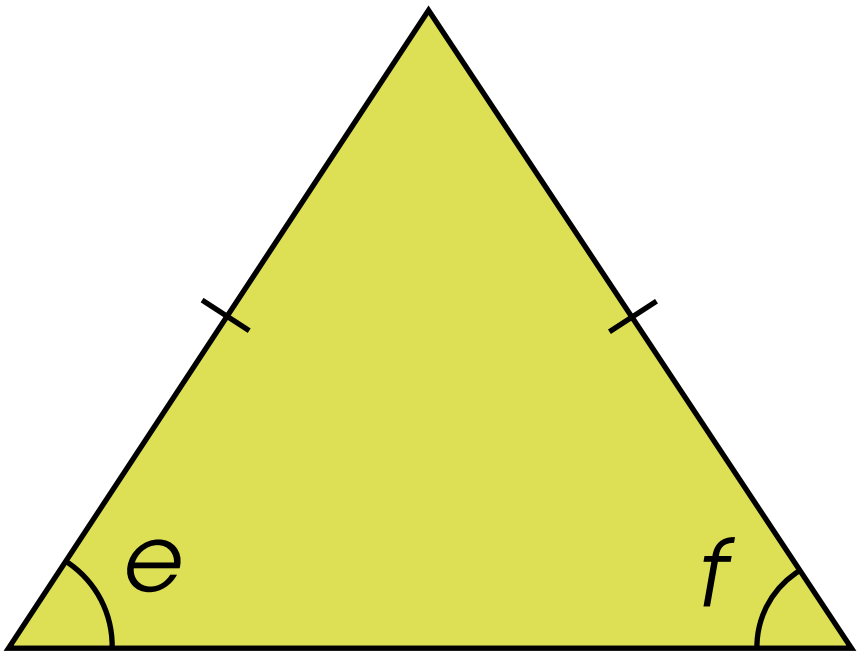
* Note to teacher:

- 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



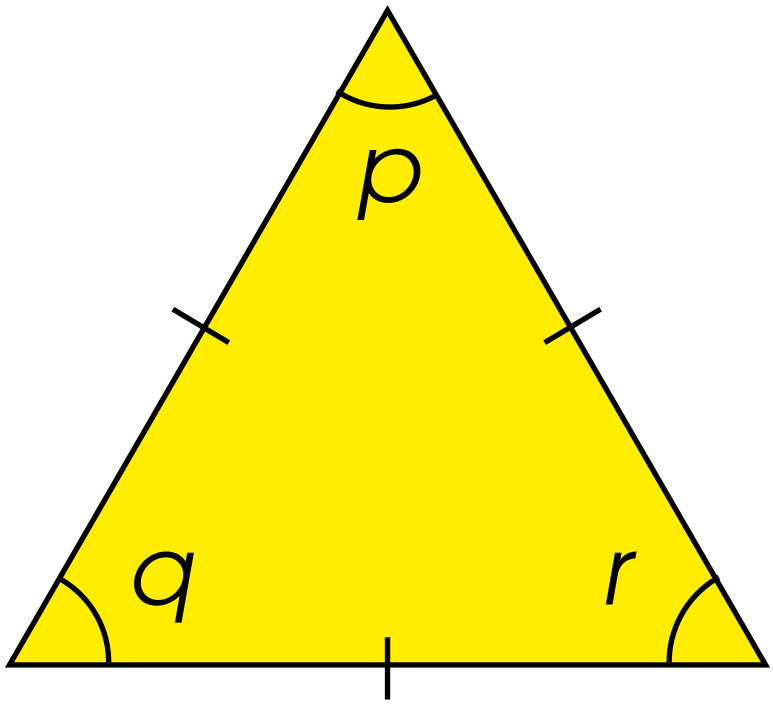
Write down the properties of an isosceles triangle.

An isosceles triangle…

Worksheet

Name:_____ Class: _____ Date: _____

Equilateral Triangle



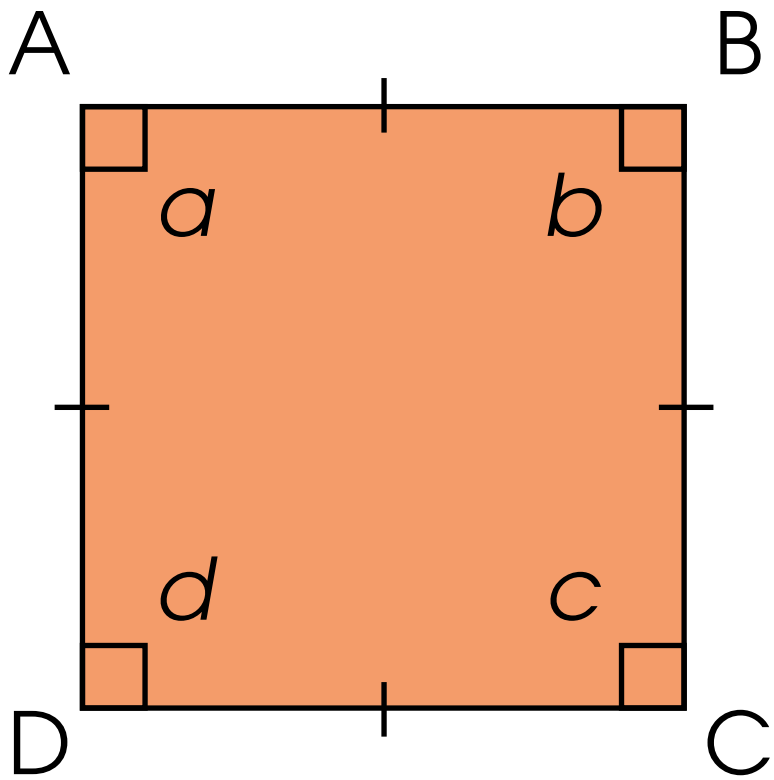
Write down the properties of an equilateral triangle.

An equilateral triangle…

Worksheet

Name:_____ Class: _____ Date: _____

Square



Write down the properties of a square.

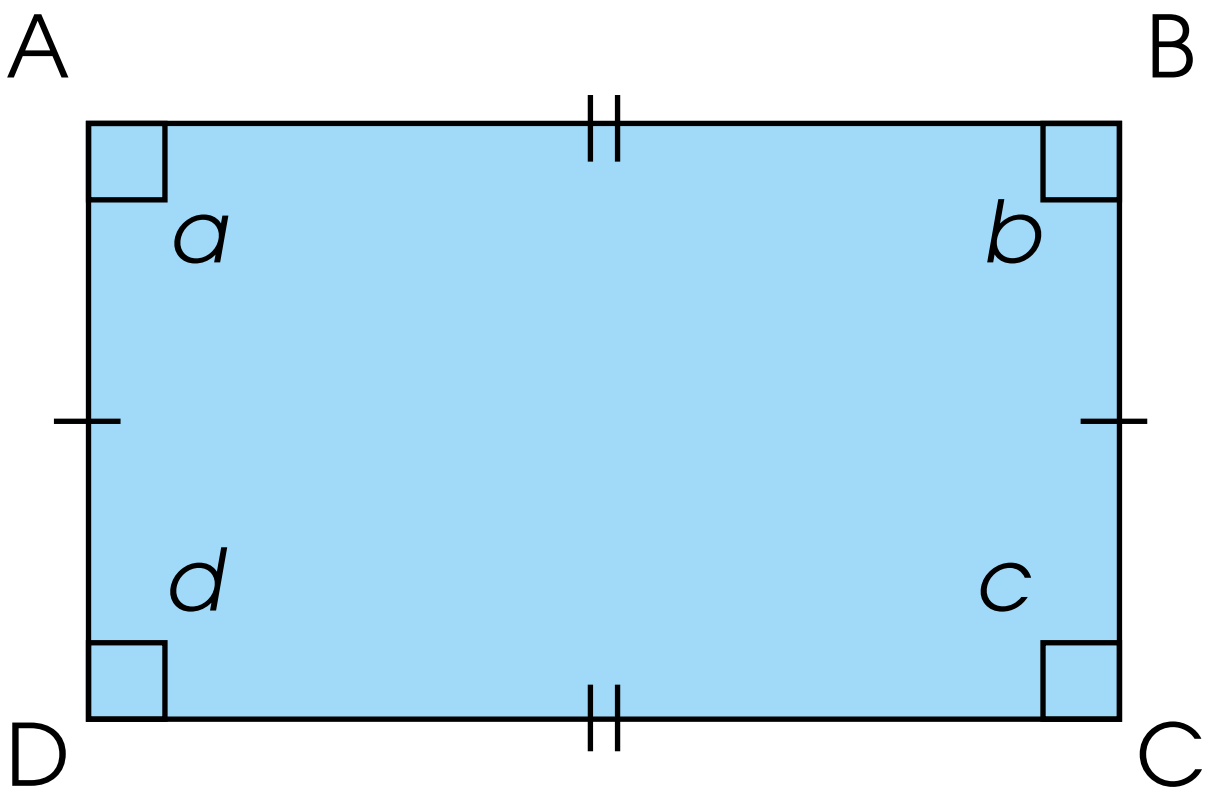
A square...

NSPM 6 Chapter 2 Lesson 1

Worksheet

Name:_____ Class: _____ Date: _____

Rectangle



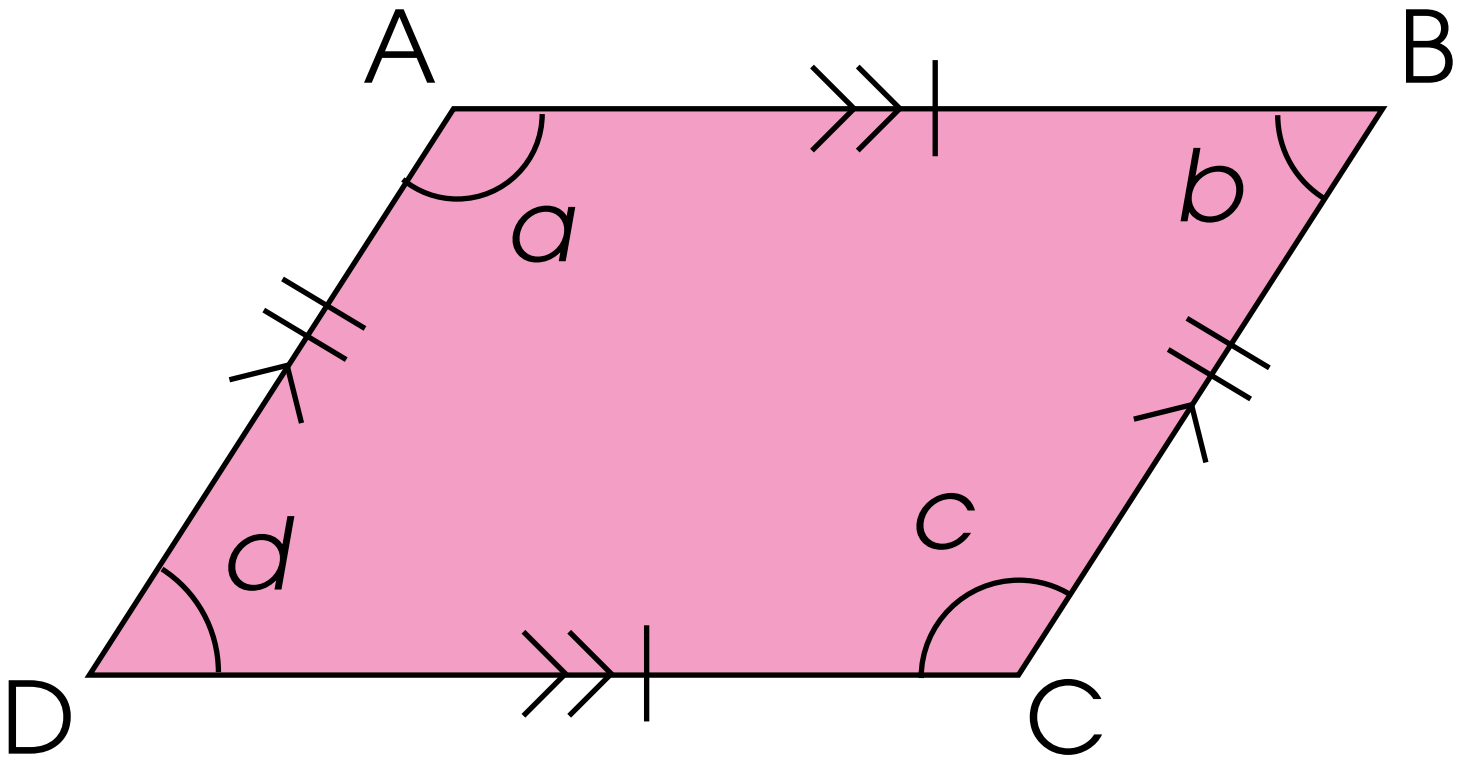
Write down the properties of a rectangle.

A rectangle…

Worksheet

Name:_____ Class: _____ Date: _____

Parallelogram



Write down the properties of a parallelogram.

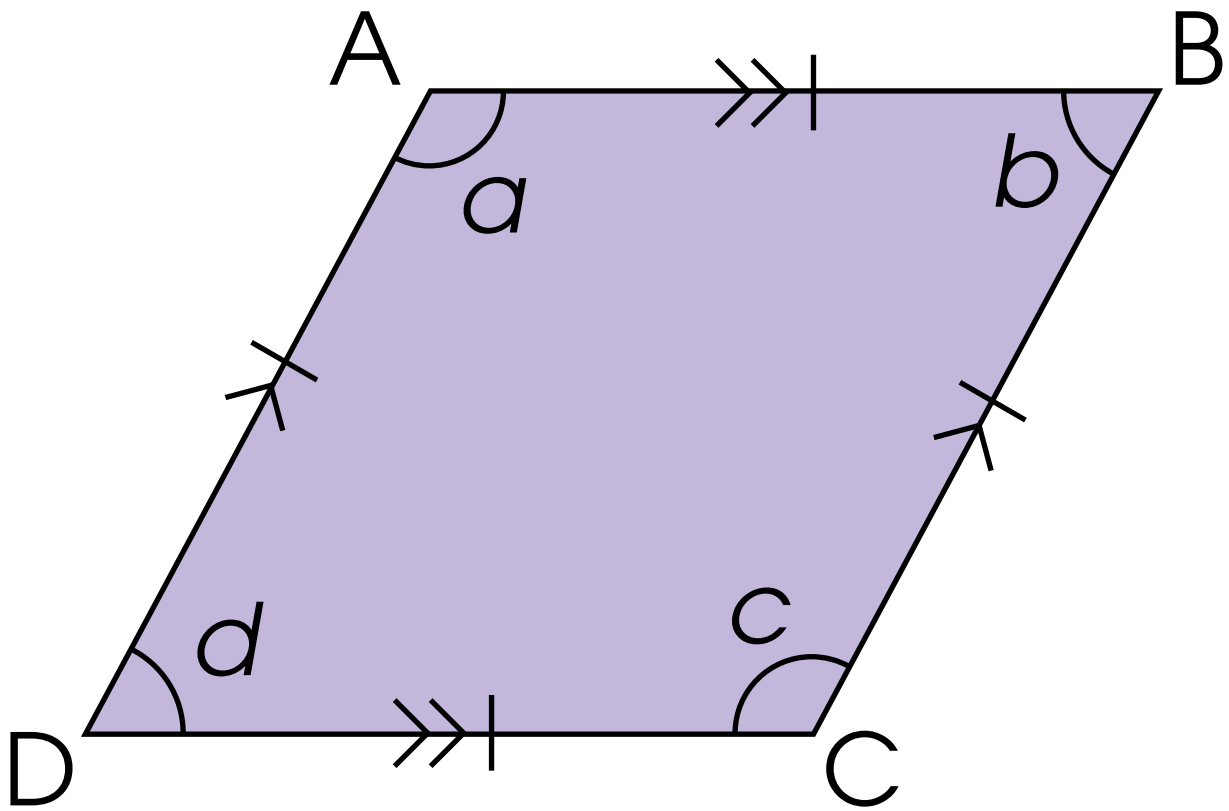
A parallelogram…

NSPM 6 Chapter 2 Lesson 1

Worksheet

Name:_____ Class: _____ Date: _____

Rhombus



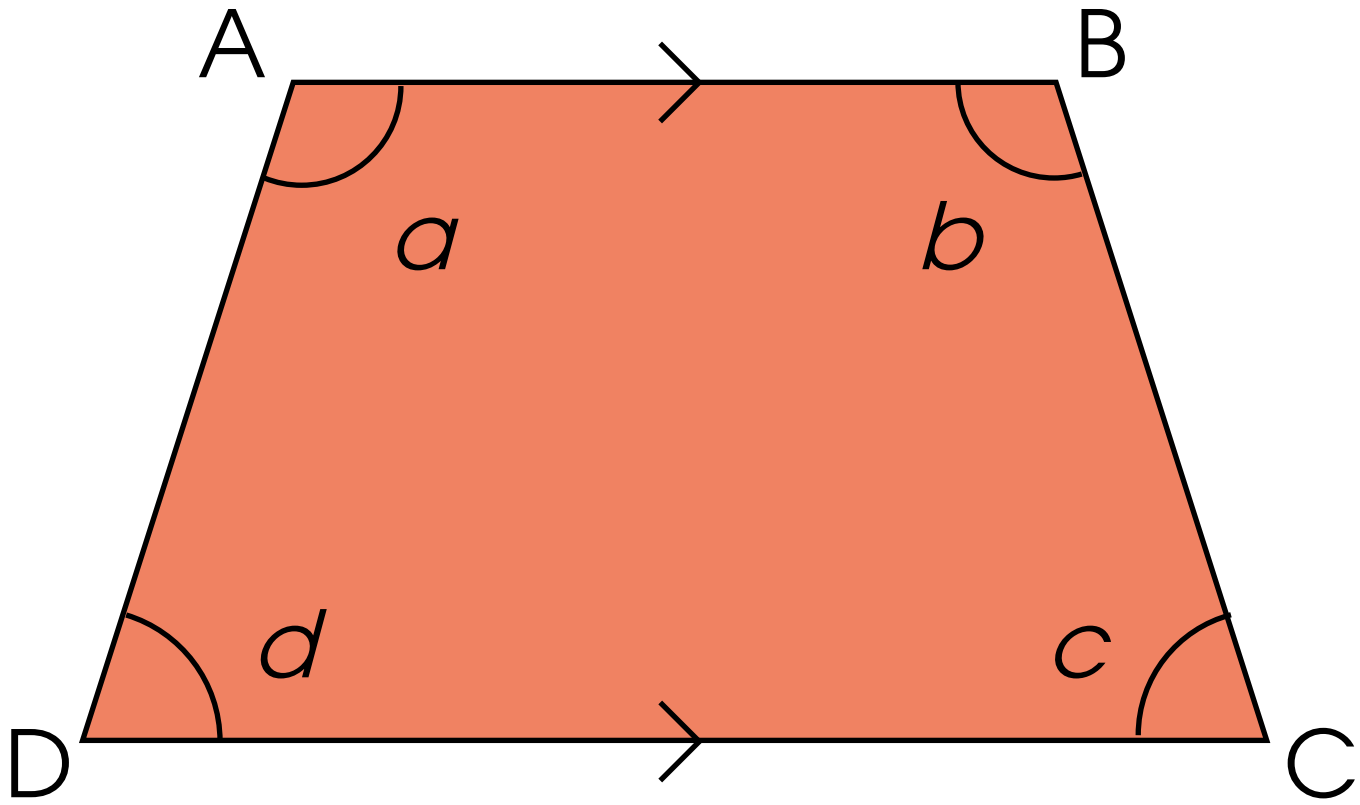
Write down the properties of a rhombus.

A rhombus…

Worksheet

Name:_____ Class: _____ Date: _____

Trapezium

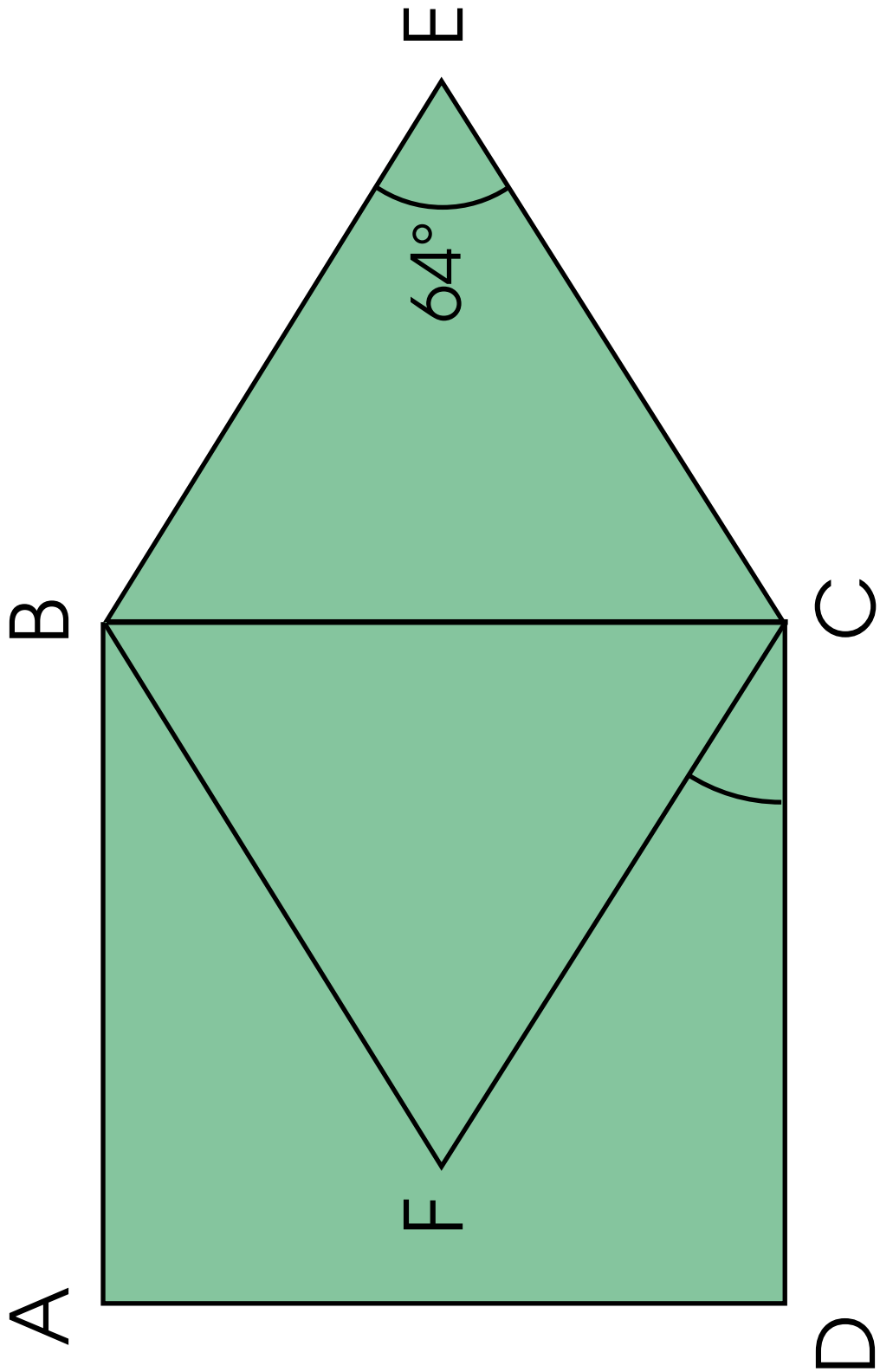


Write down the properties of a trapezium.

A trapezium…

NSPM 6 Chapter 2 Lesson 1

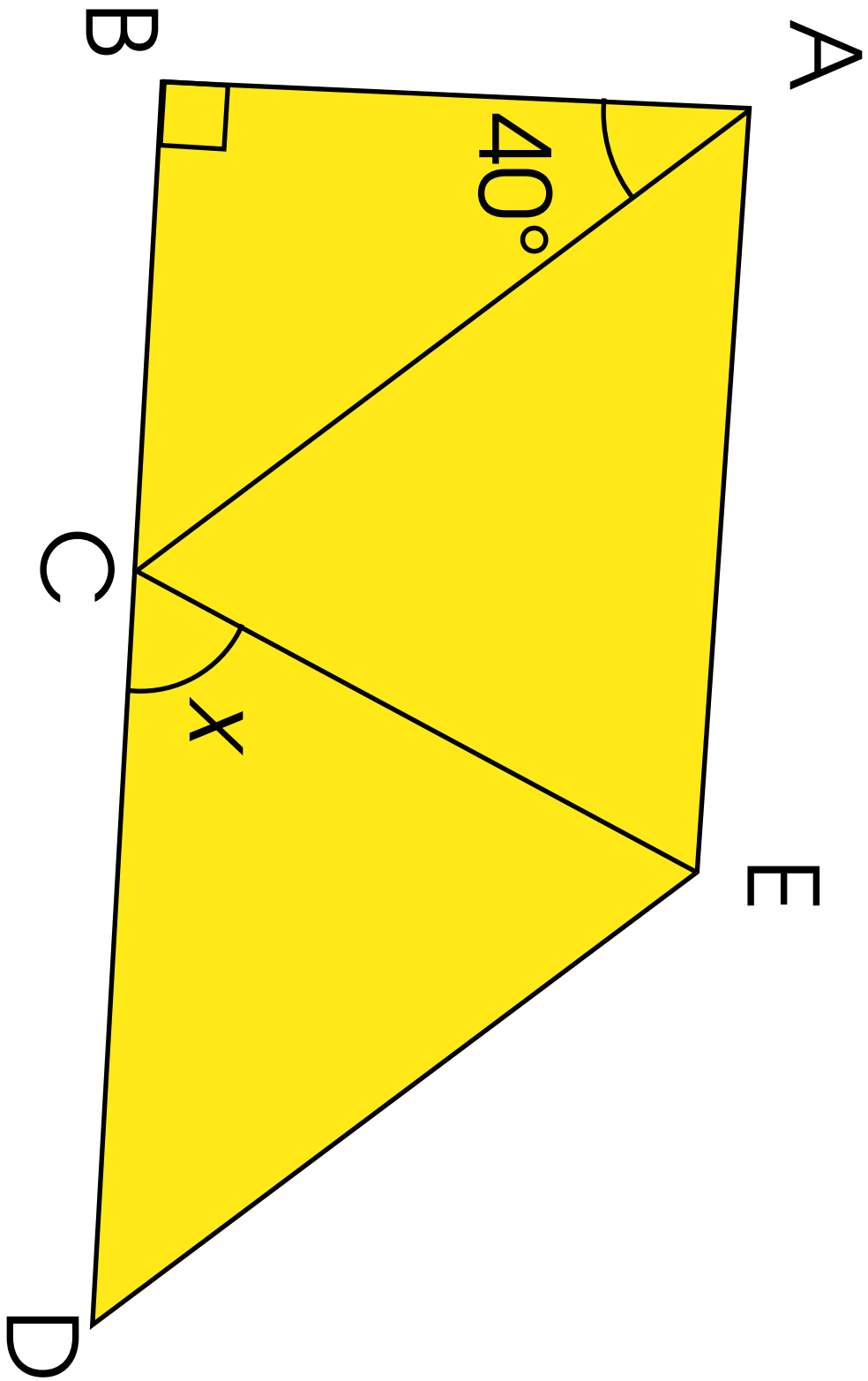
Figure



* 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.*

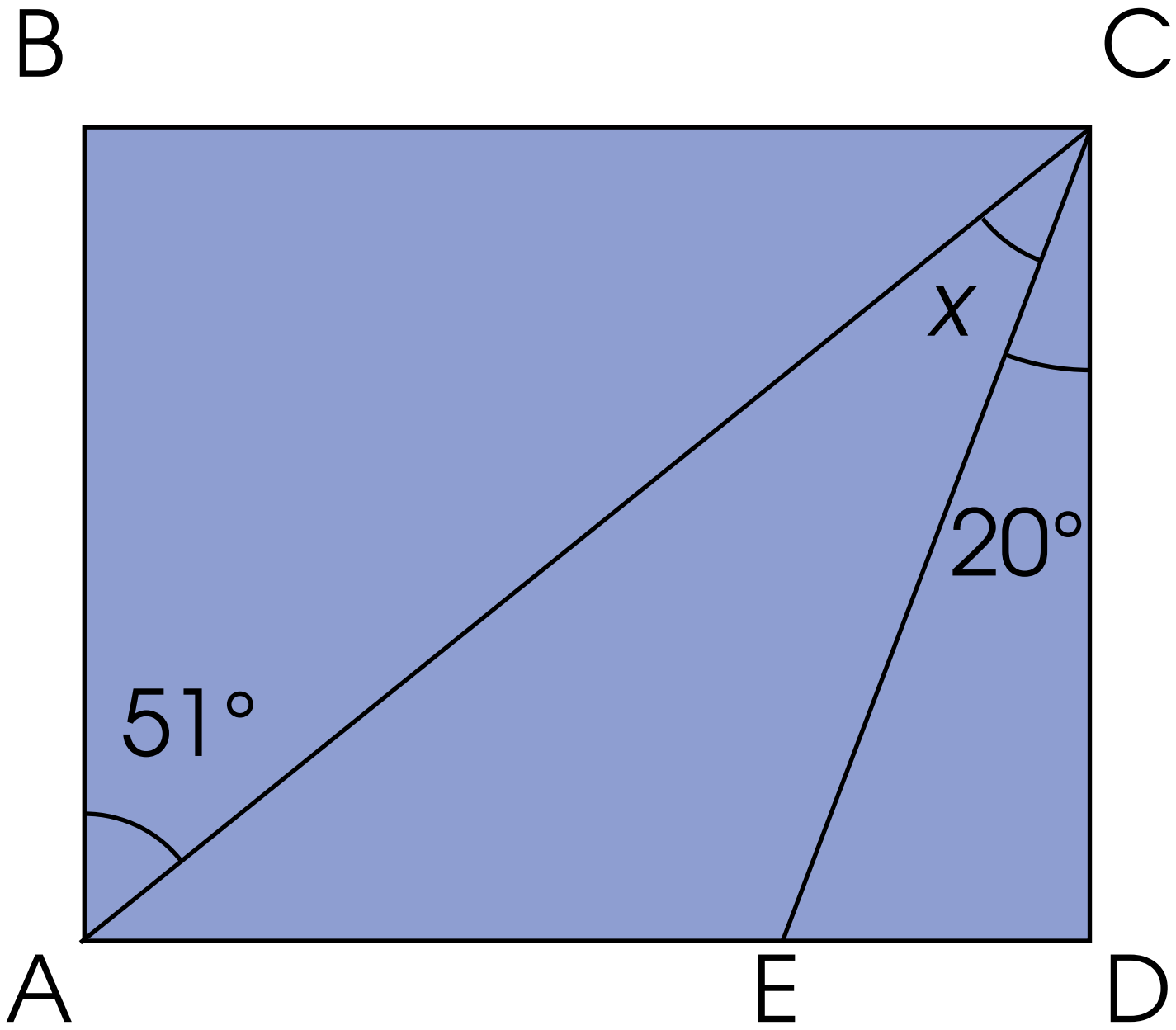
Figure (a)



* Note to teacher:

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

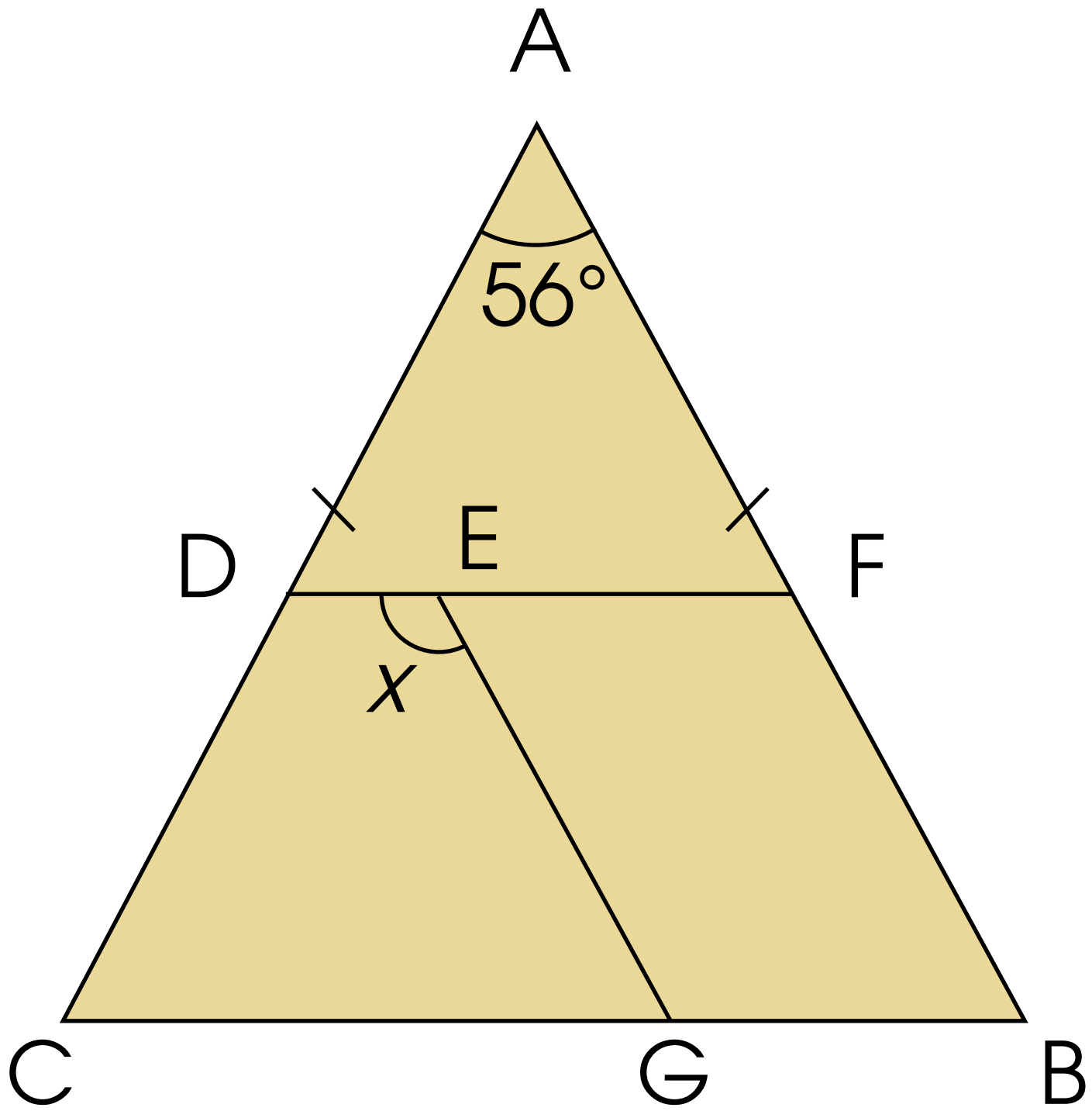
Figure (b)



* Note to teacher:

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

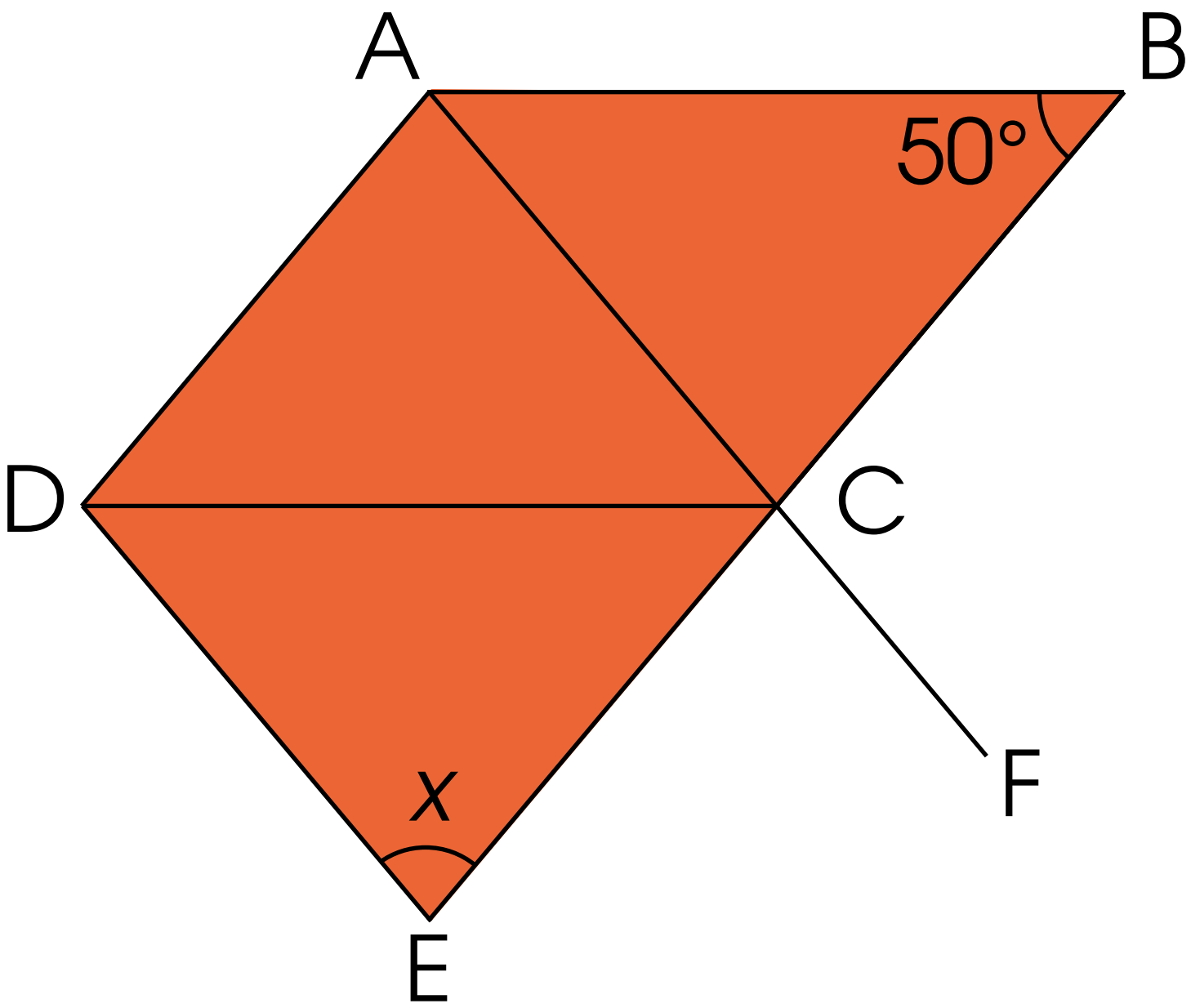
Figure (c)



* Note to teacher:

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

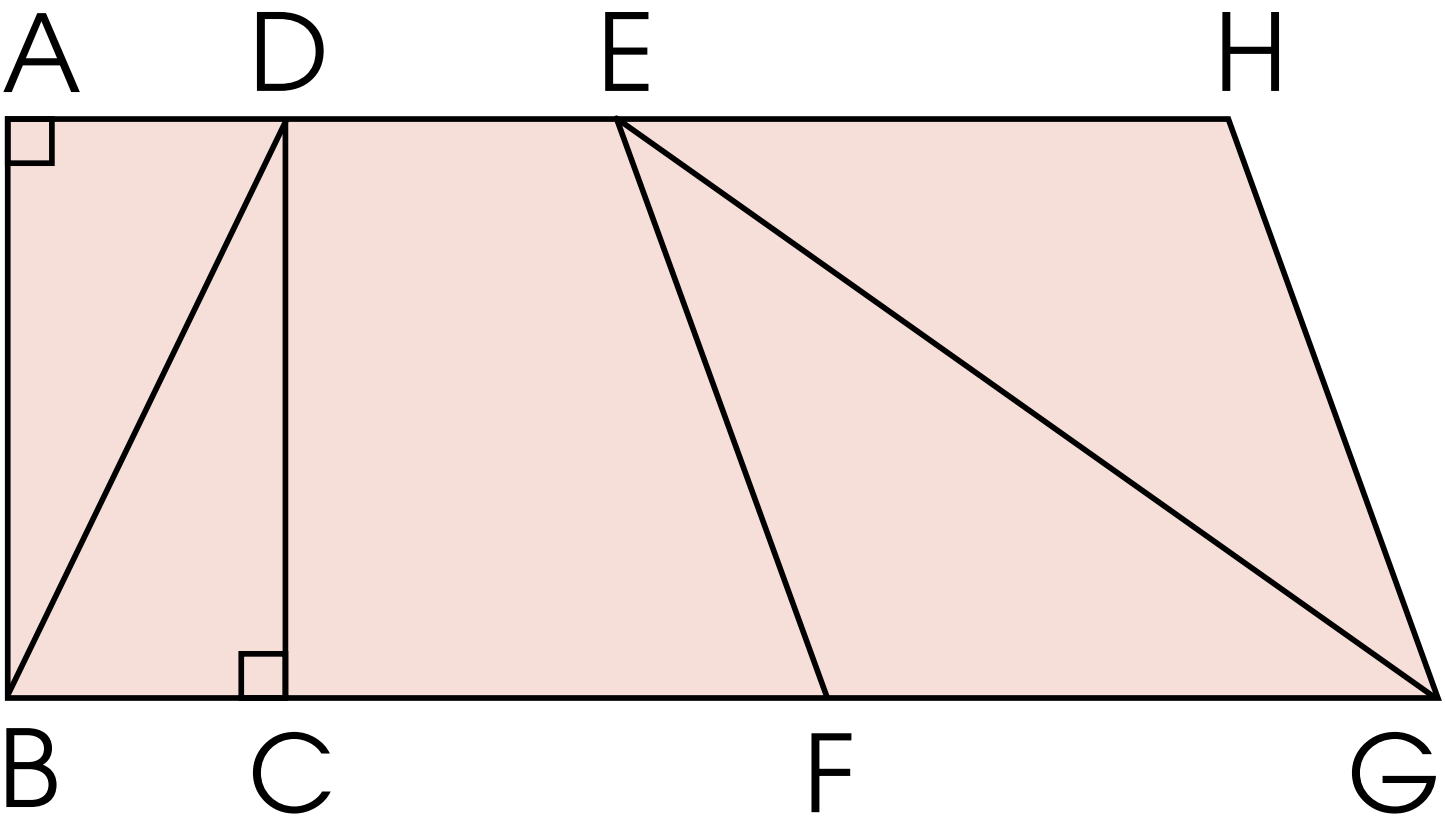
Figure (d)



* Note to teacher:

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

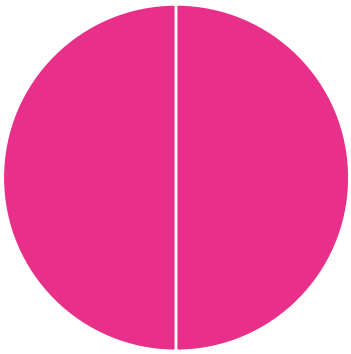
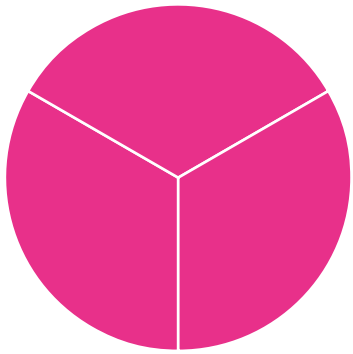
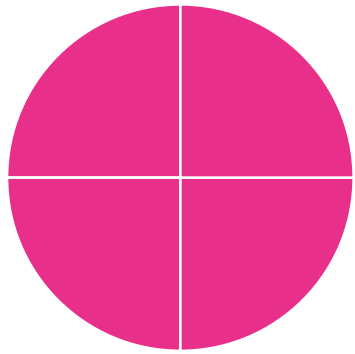
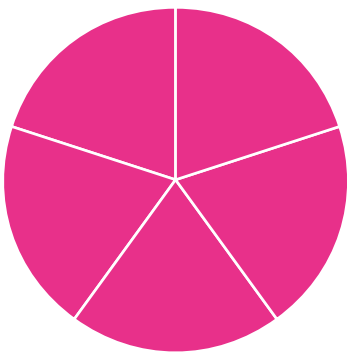
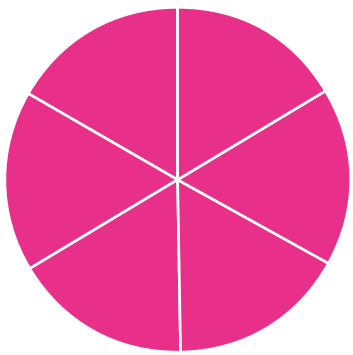
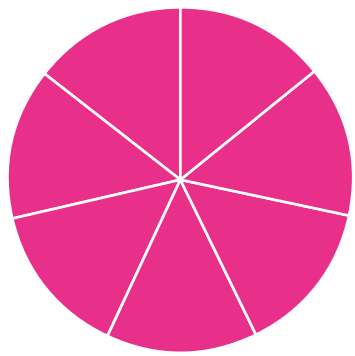
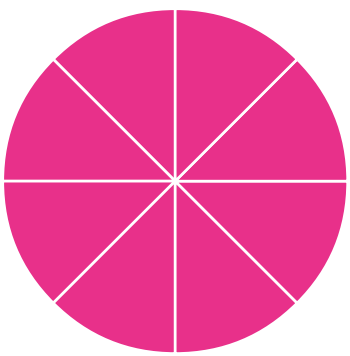
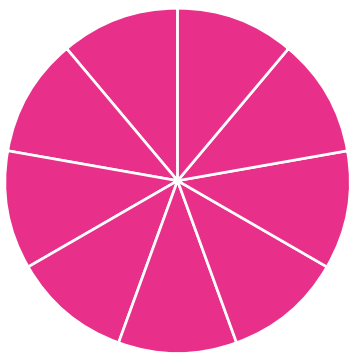
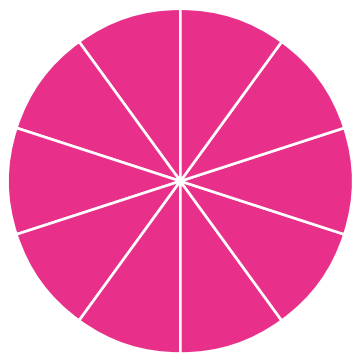
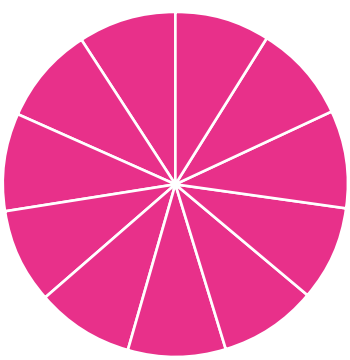
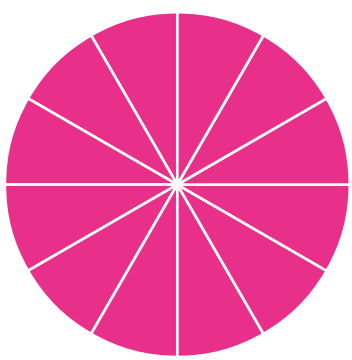
Figure ABGH



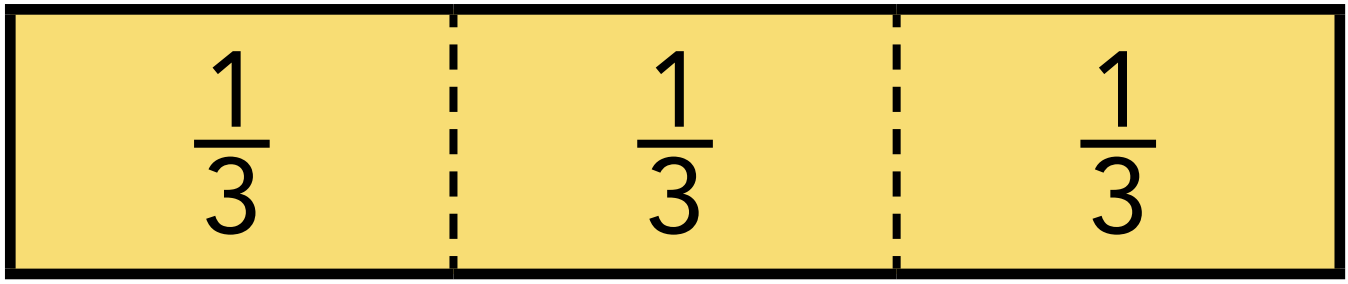
* Note to teacher:

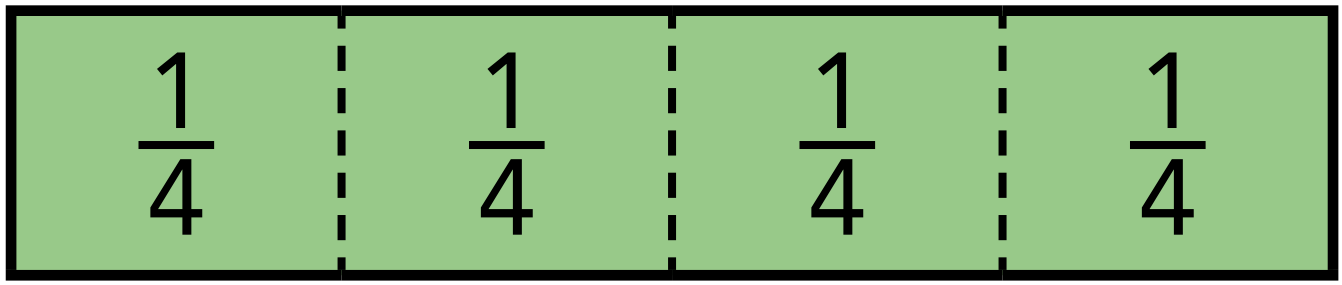
- Cut out the figure and laminate it for 'Maths Journal' (Textbook 6 P32).

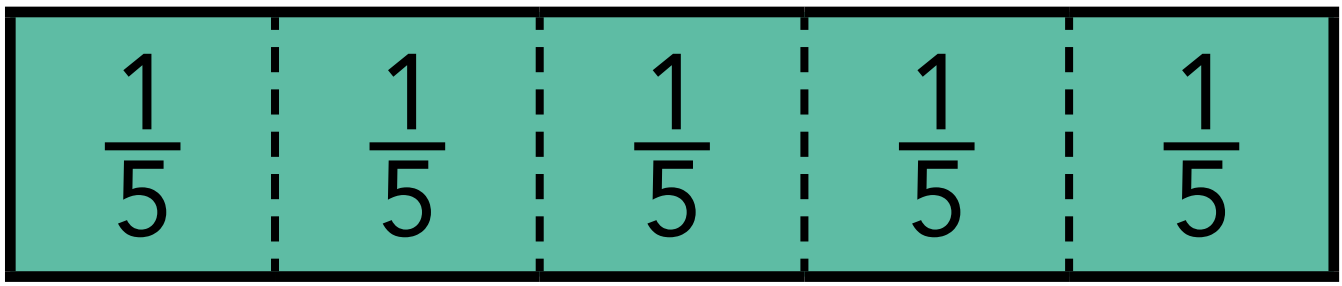
Fraction Discs

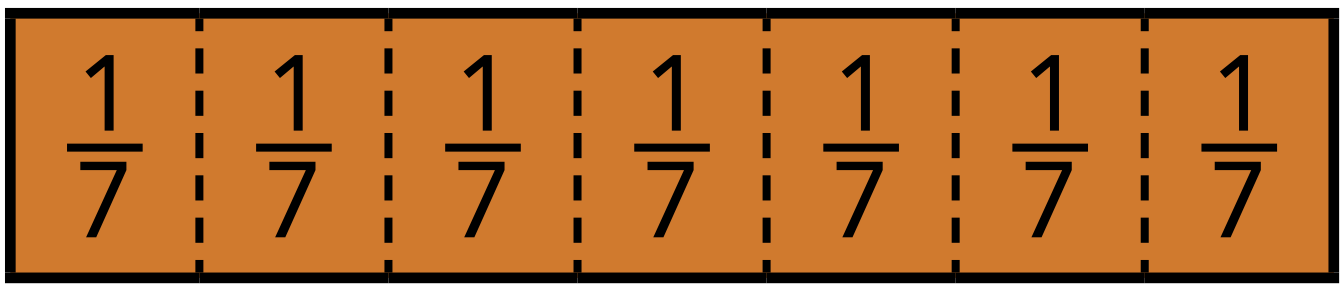












Fraction Bars

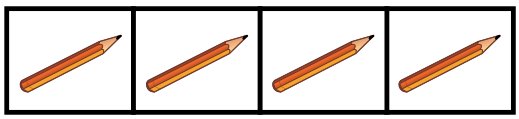


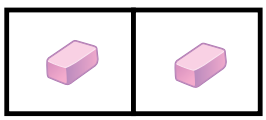


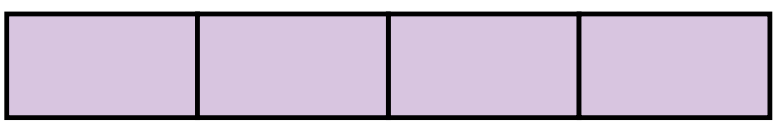




Bar Models







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 $\square : \square$.

* 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

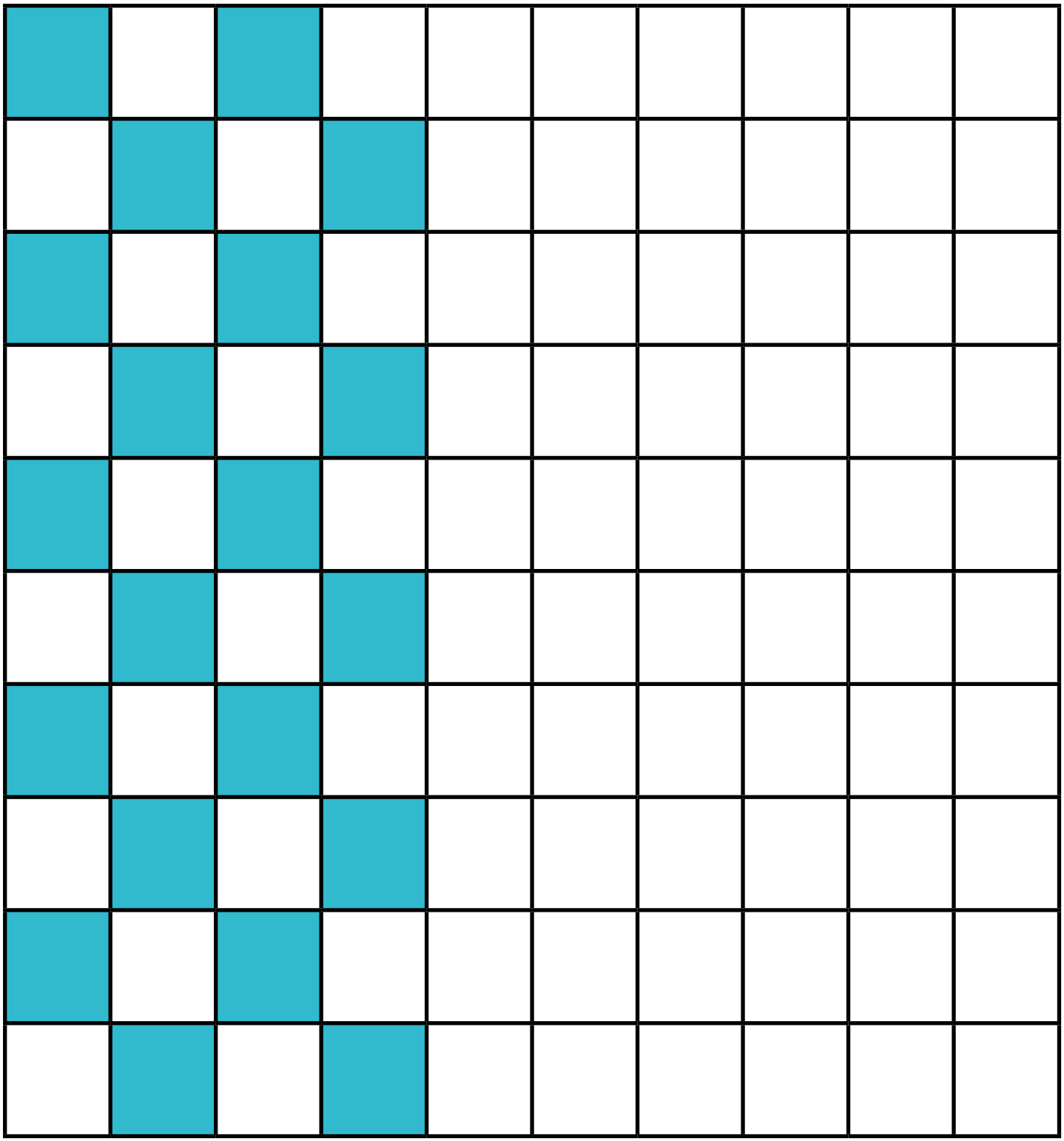
3 cups macaroni

1 can condensed cream of chicken soup

1 can tuna

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

Shaded and Unshaded Squares



Percentage Increase and Decrease Formulae

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

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

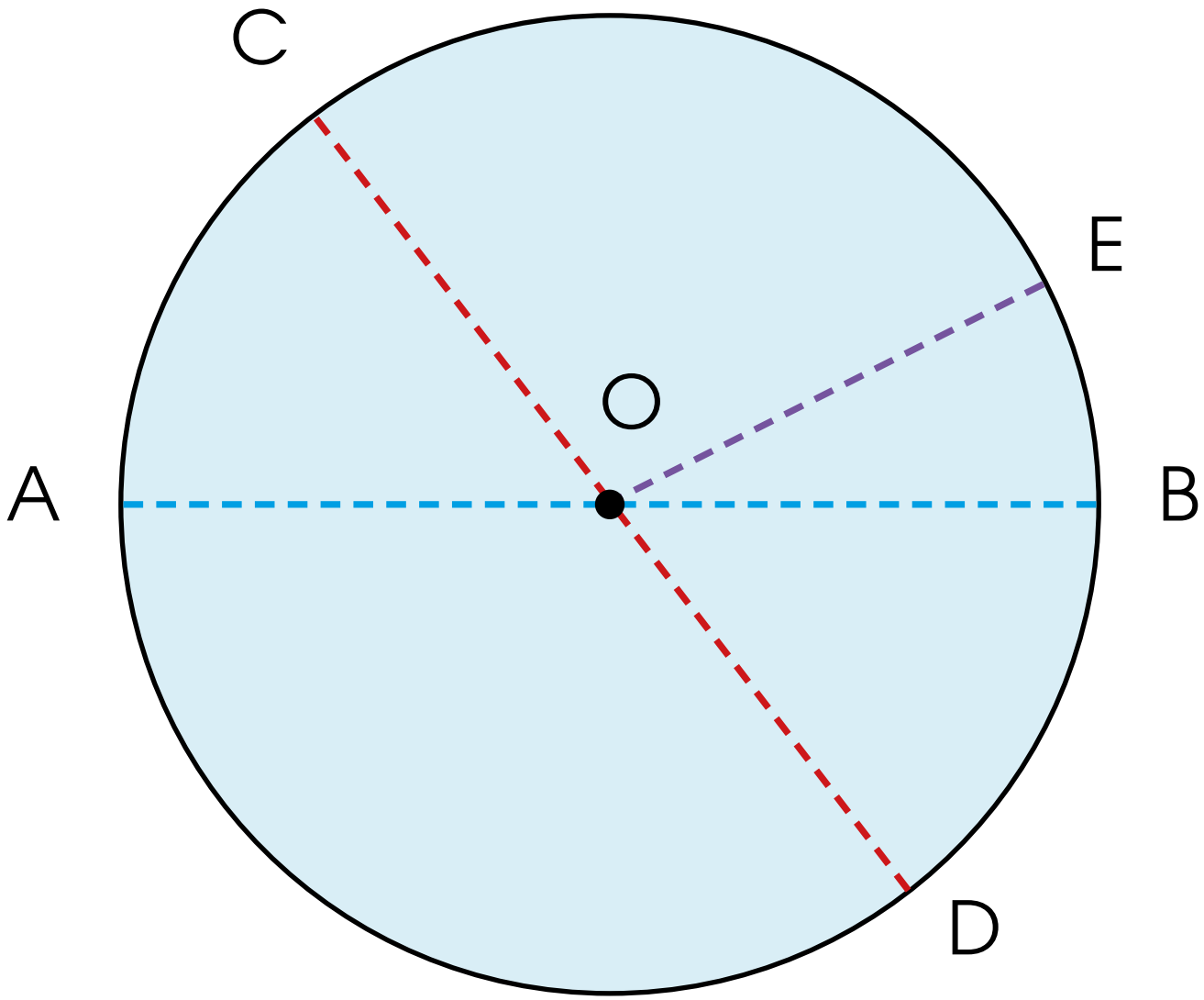
Table of Results

First number	Second number	Increase/Decrease

* 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



Area and Circumference of Circle Formulae

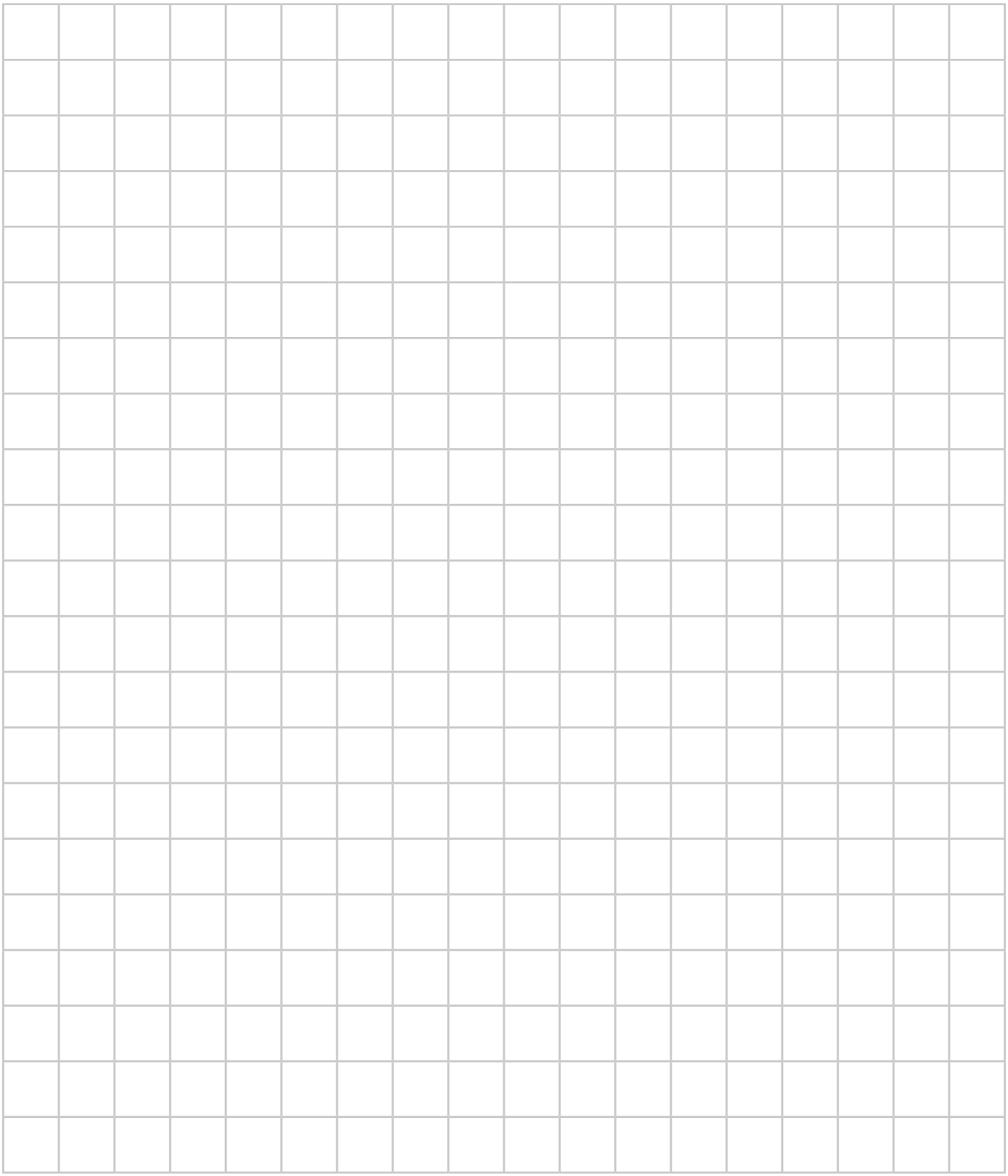
Circumference ÷ Diameter = π

Circumference = π × Diameter

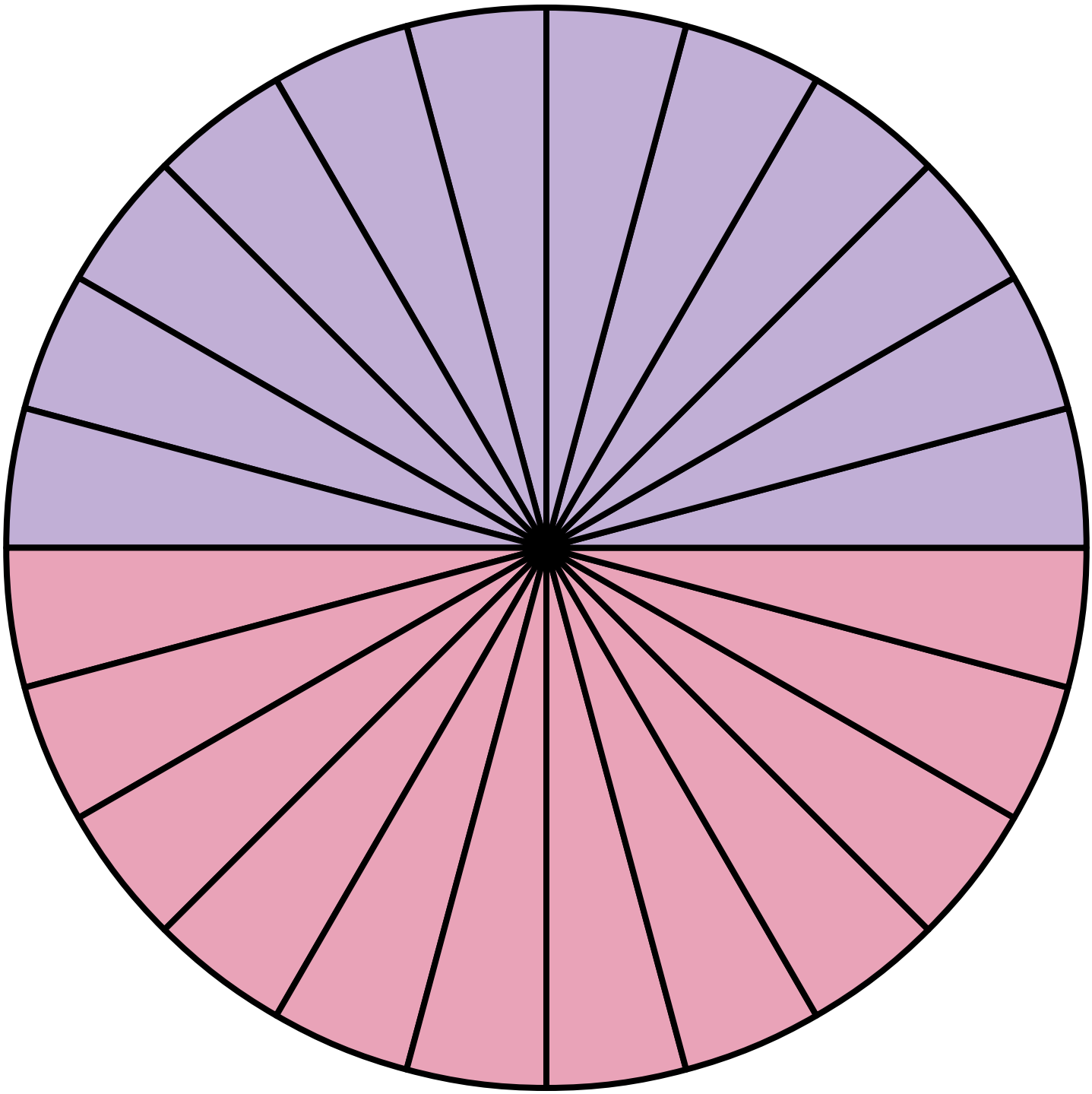
= π × 2 × Radius

Area of circle = π × Radius × Radius

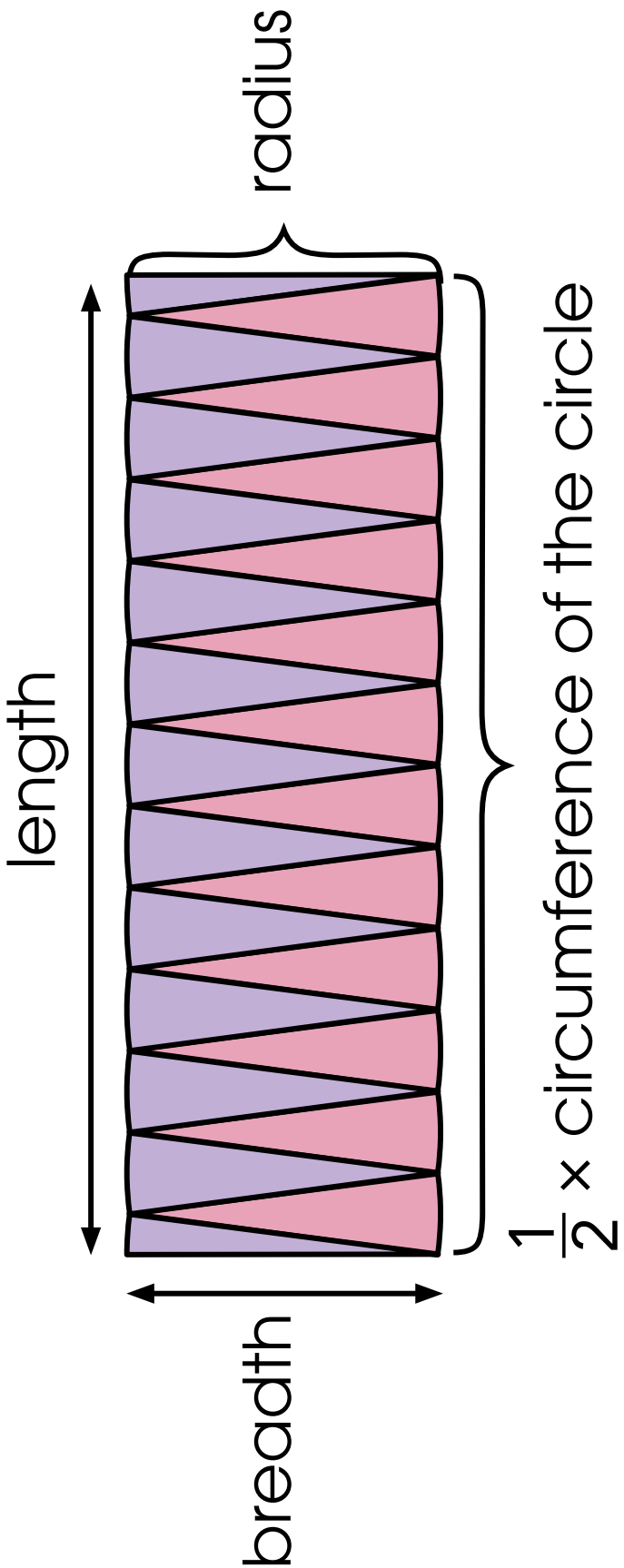
1-cm Square Grid



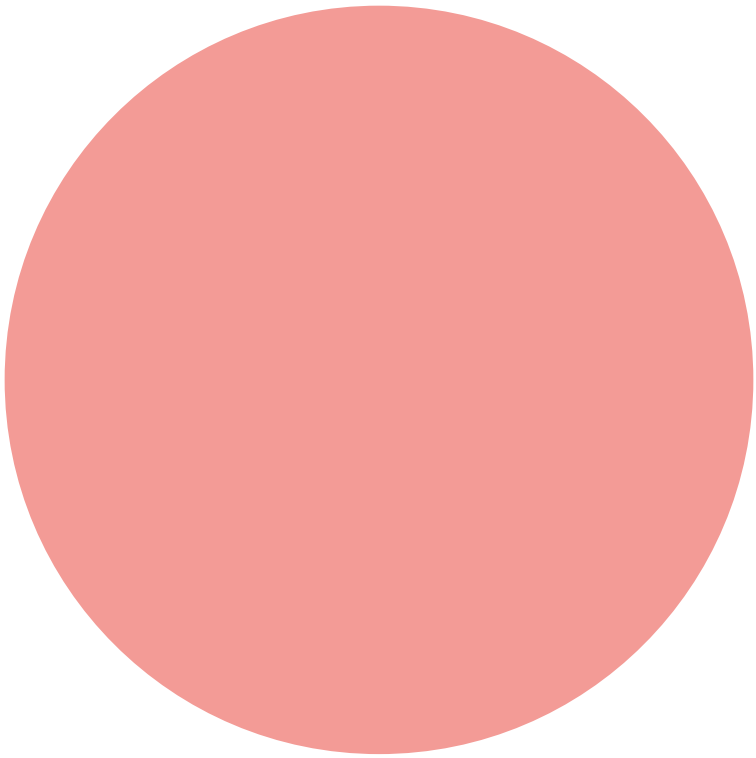
Circle Divided into 24 Equal Pieces



24 Equal Pieces of a Circle Rearranged to Form a Rectangle



Circle Cut-outs



* Note to teacher:

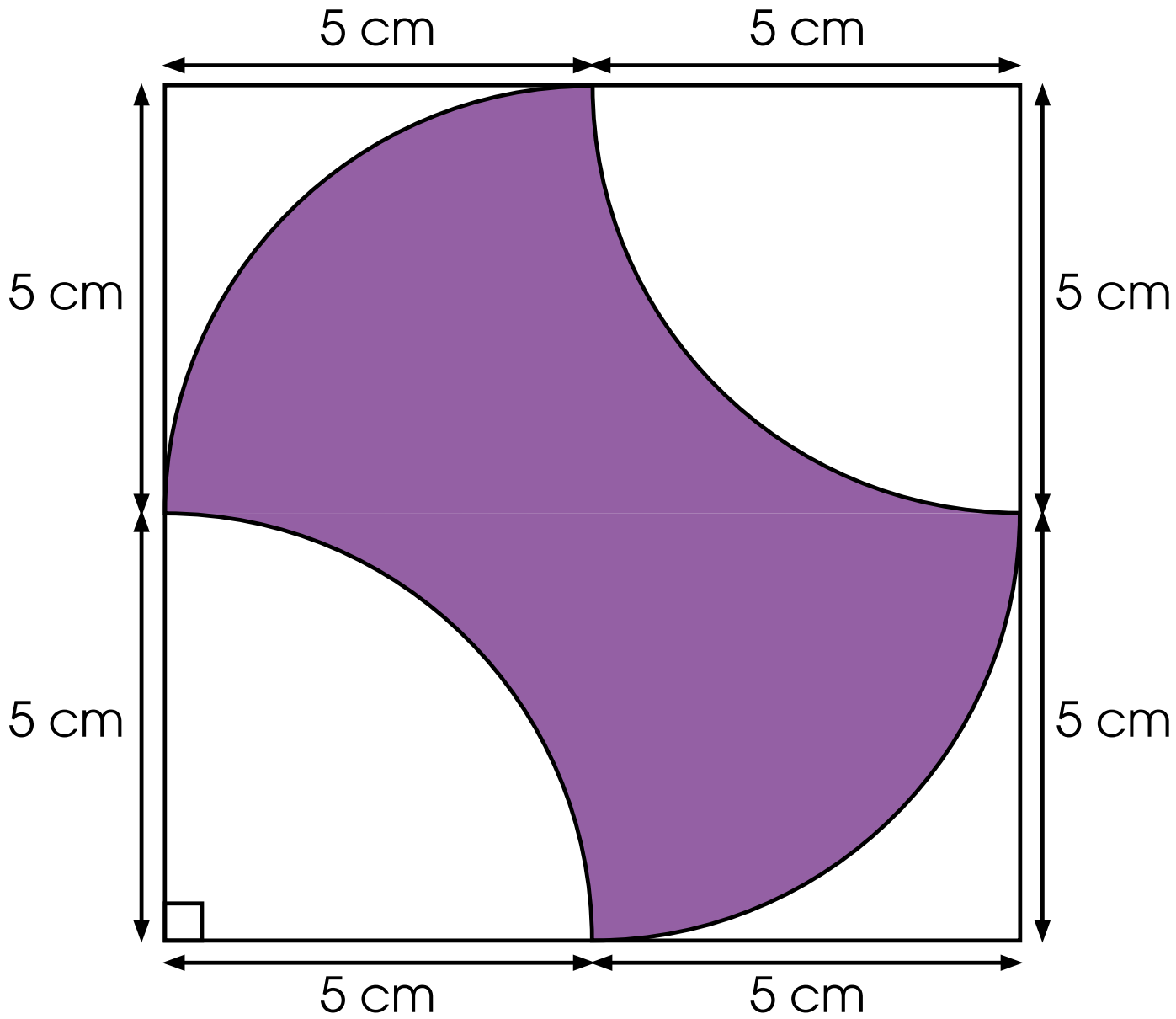
- Cut out the shapes for 'Activity Time' (Textbook 6 P133).

Semicircle and Quarter Circle Cut-outs

* Note to teacher:

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

Finding Area of Shaded Part



* Note to teacher:

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

Distance, Speed, Time Formulae

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

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

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

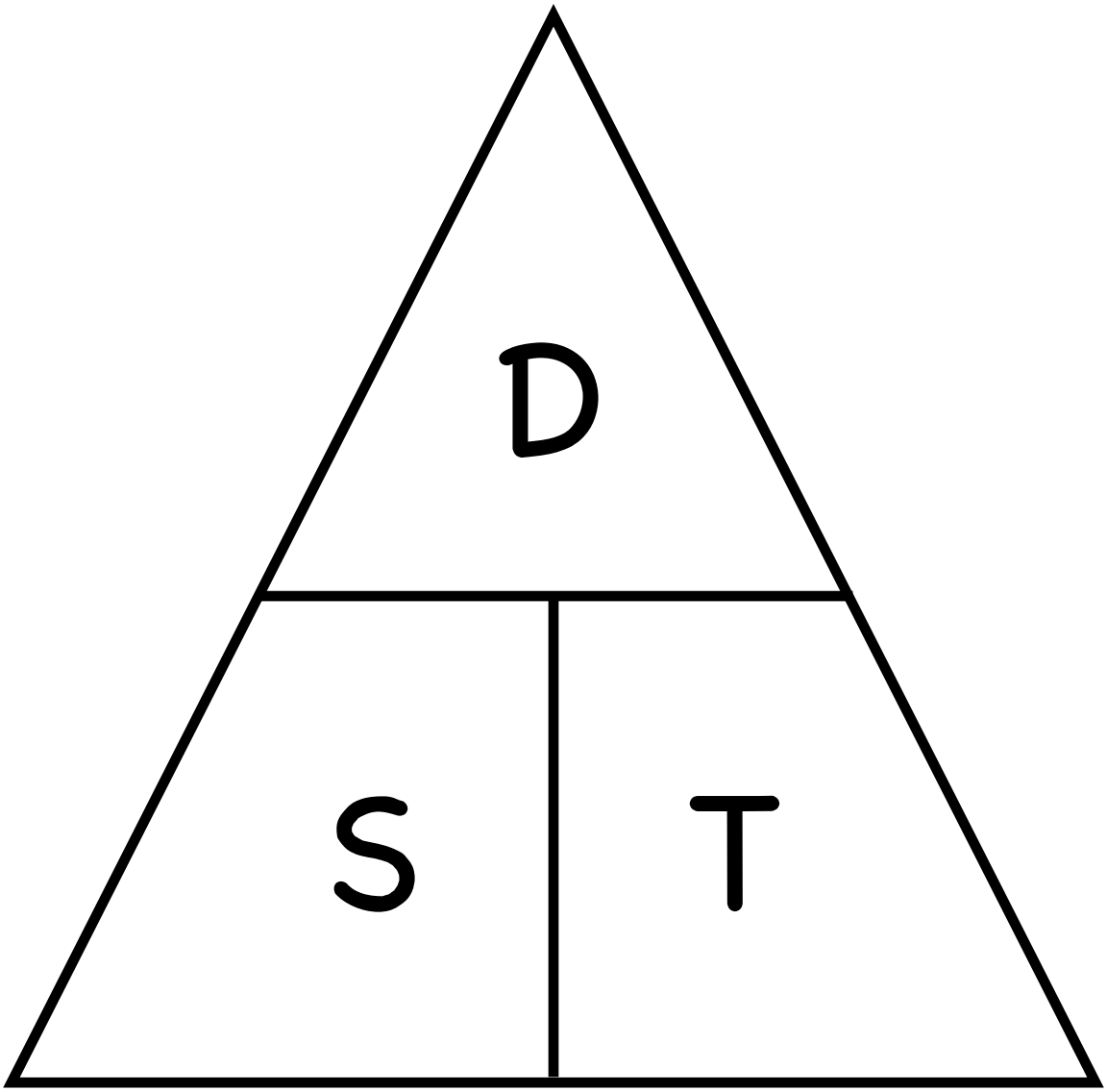
$$\text{Time} = \text{Distance} \div \text{Speed}$$

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

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

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

Distance Speed Time Triangle



Volume and Area Formulae

Volume of cube = Length × Length × Length

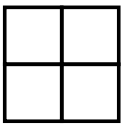
Volume of cuboid = Length × Breadth × Height

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

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

Area = Length × Breadth

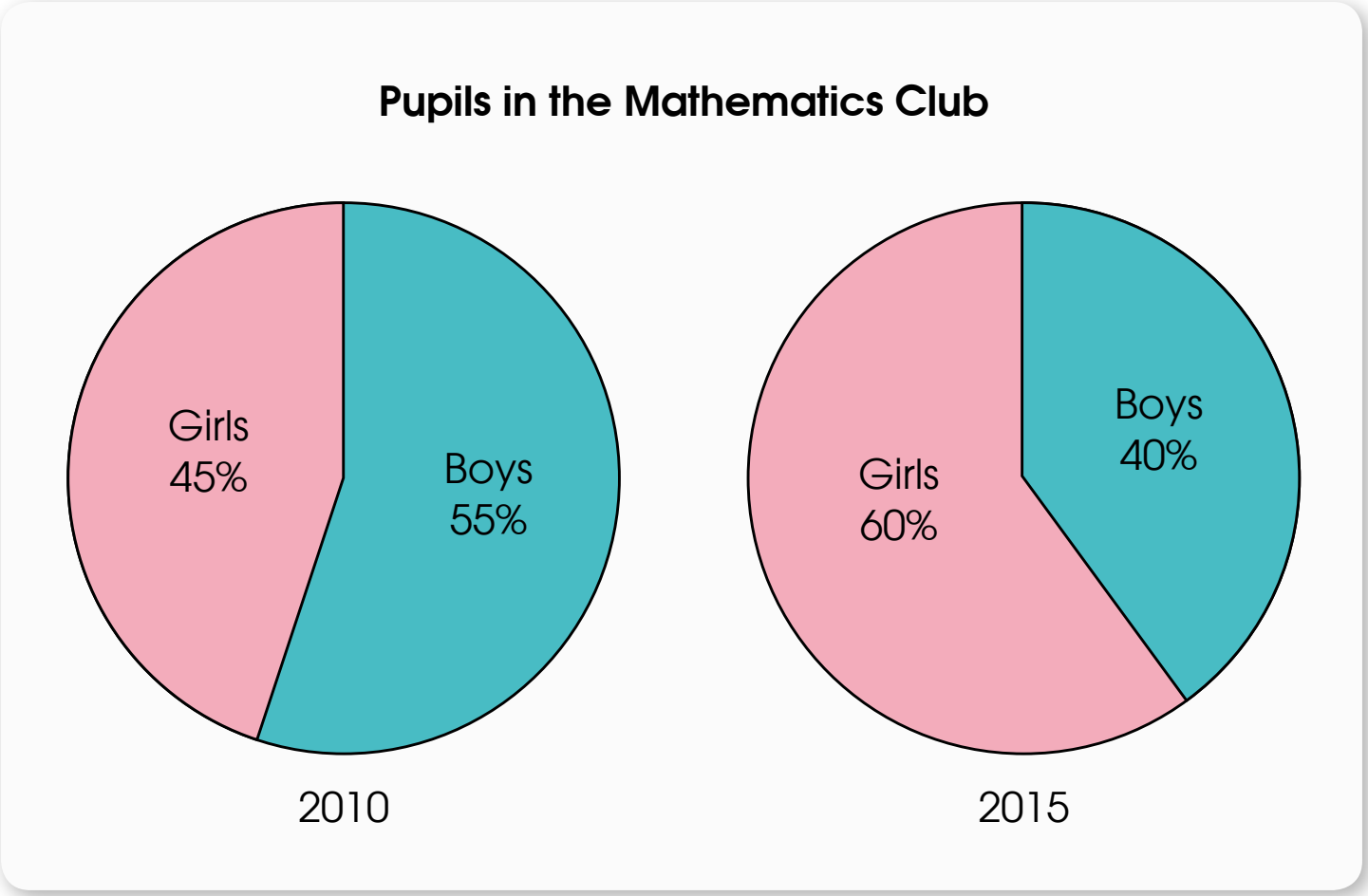
Table of Values

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		

* 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.

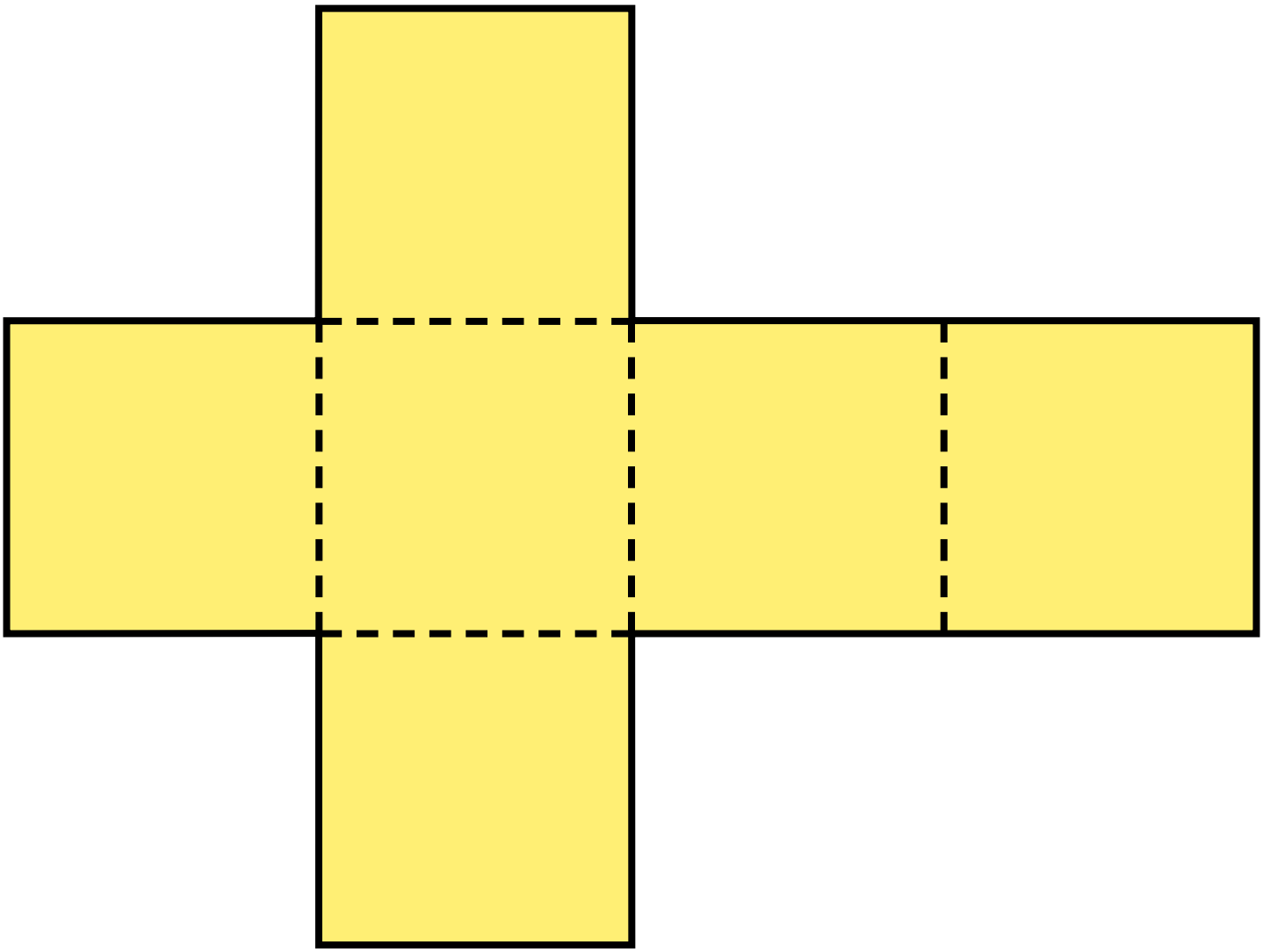
Pie Charts



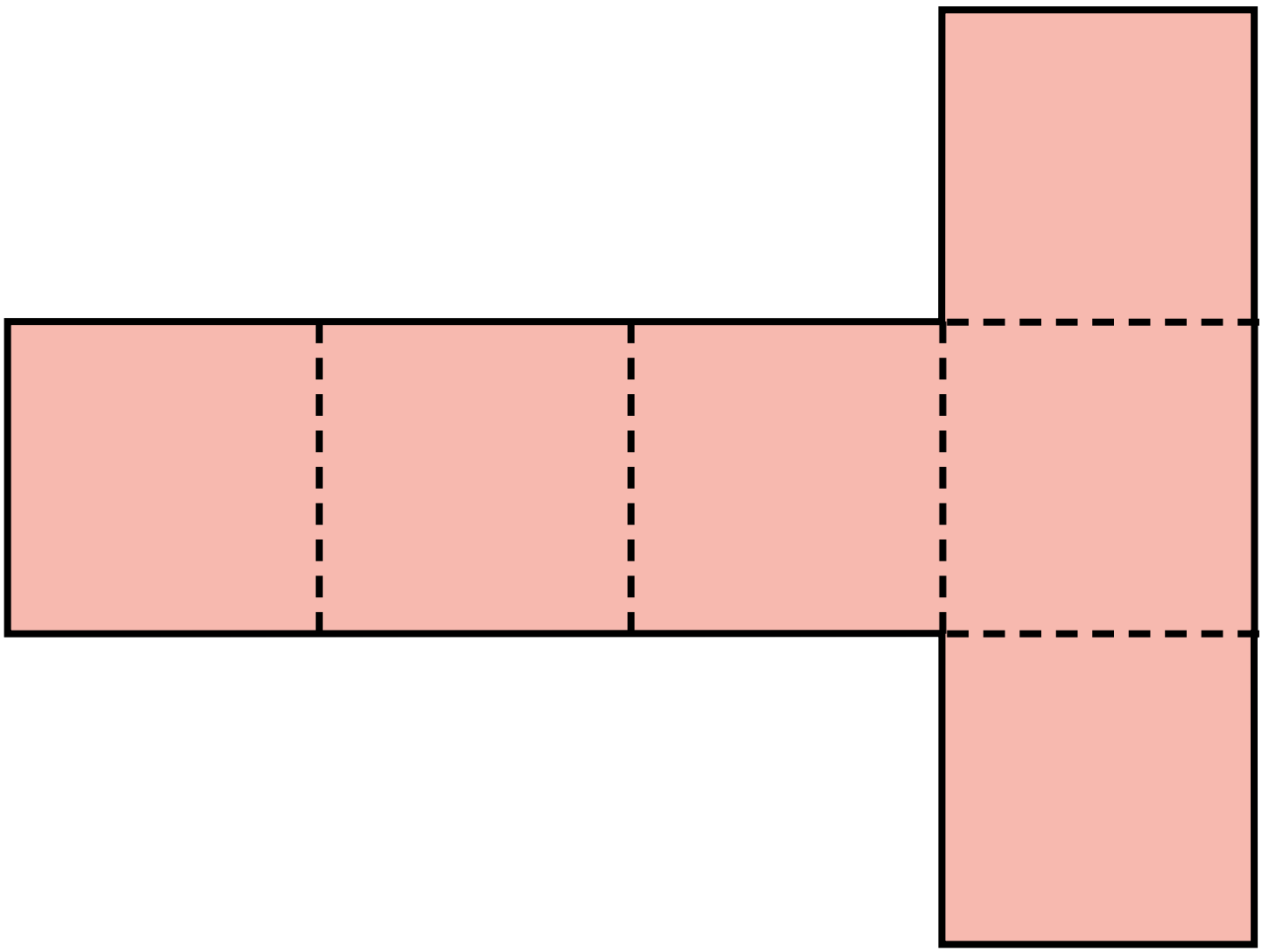
* Note to teacher:

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

Net of a Cube



Net of a Cube



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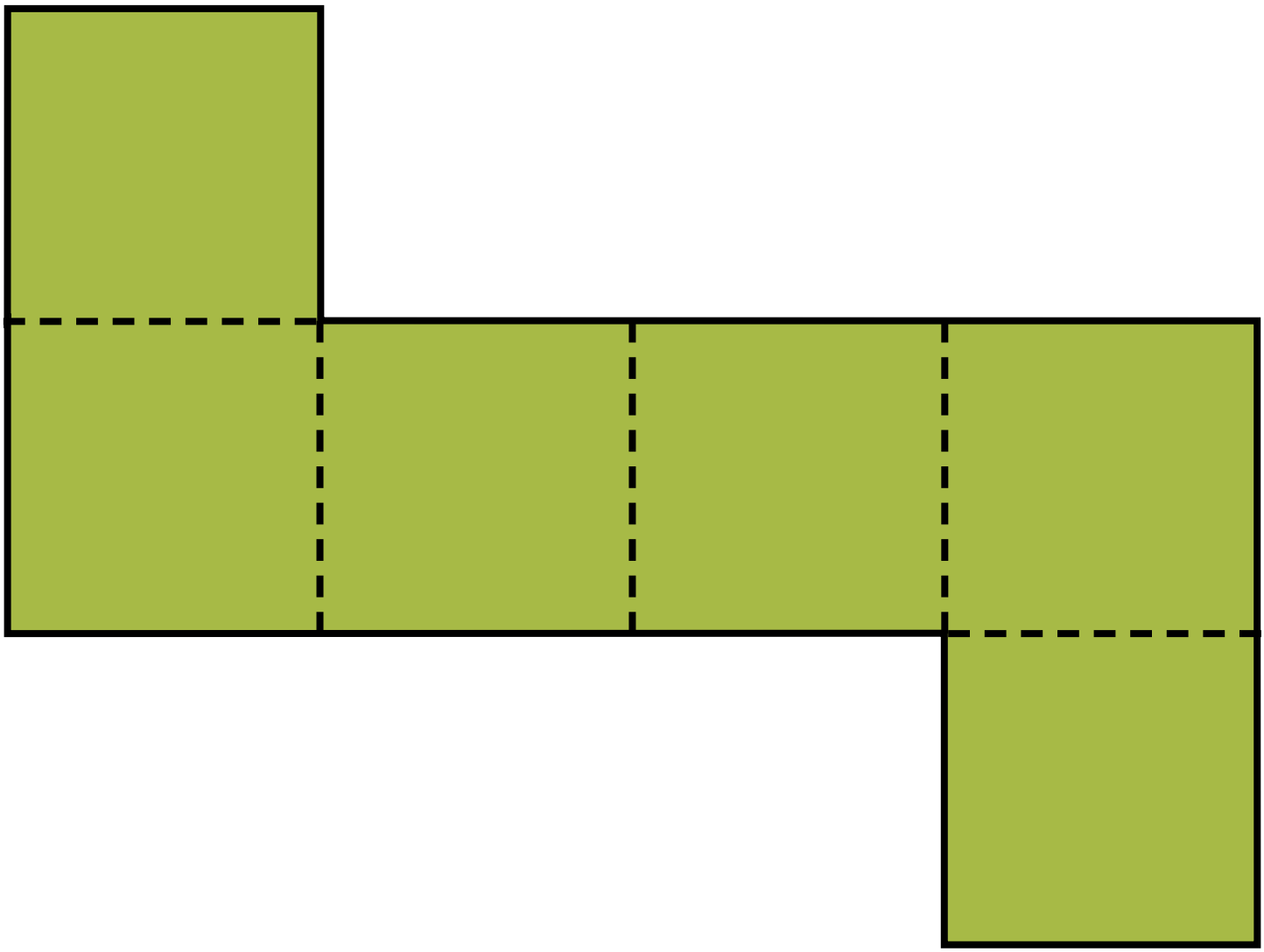

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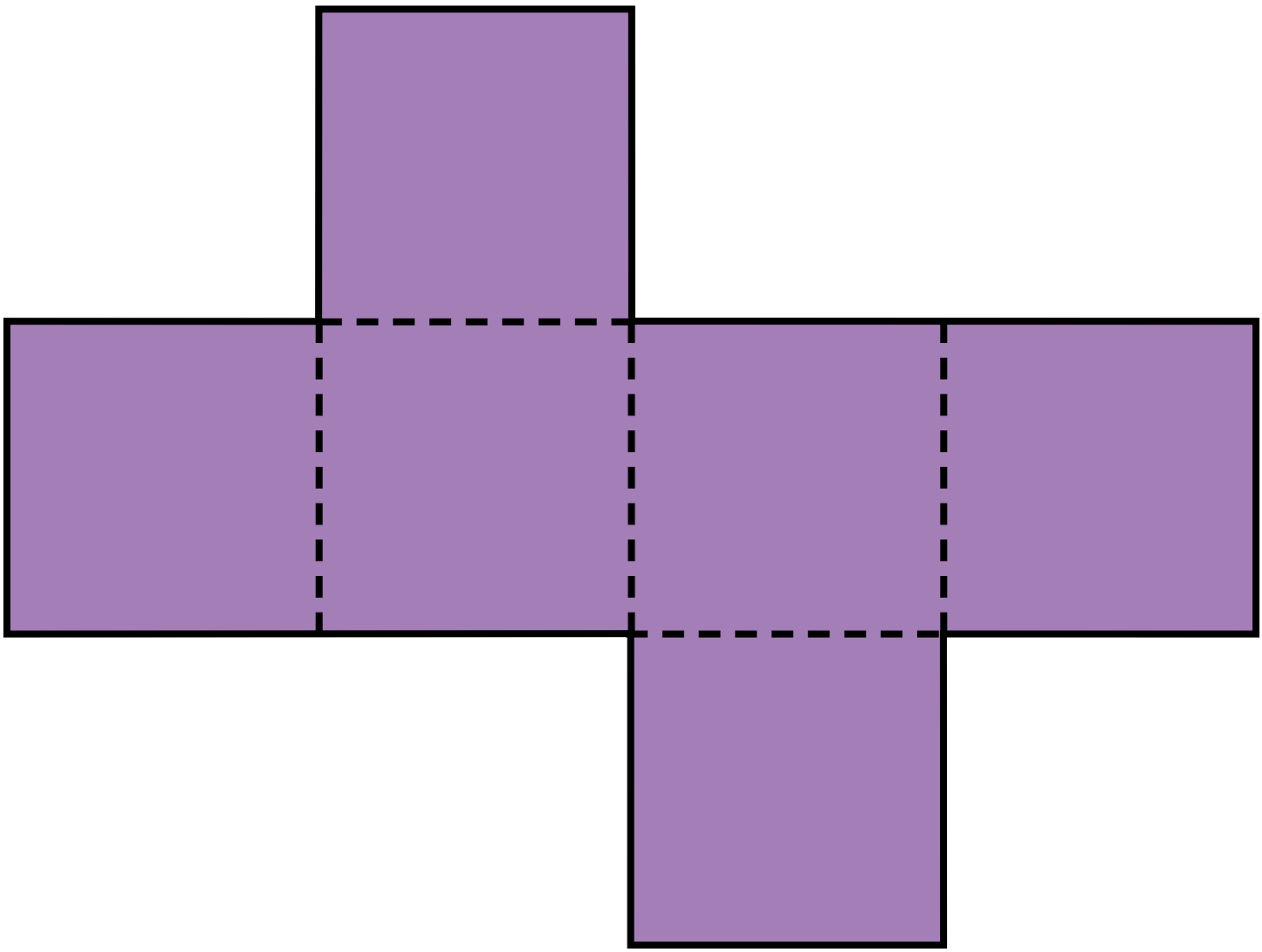
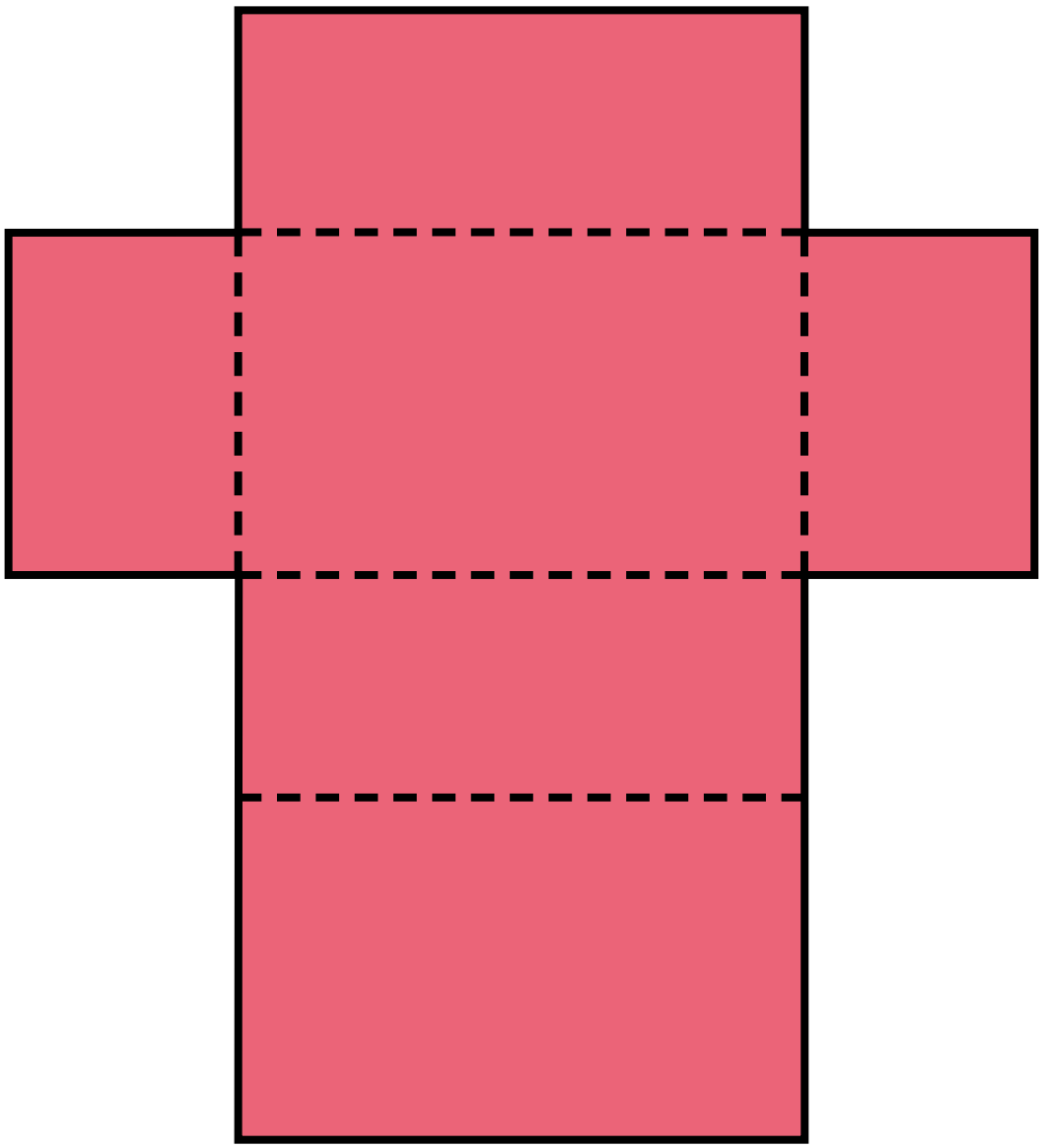


Net of a Cuboid



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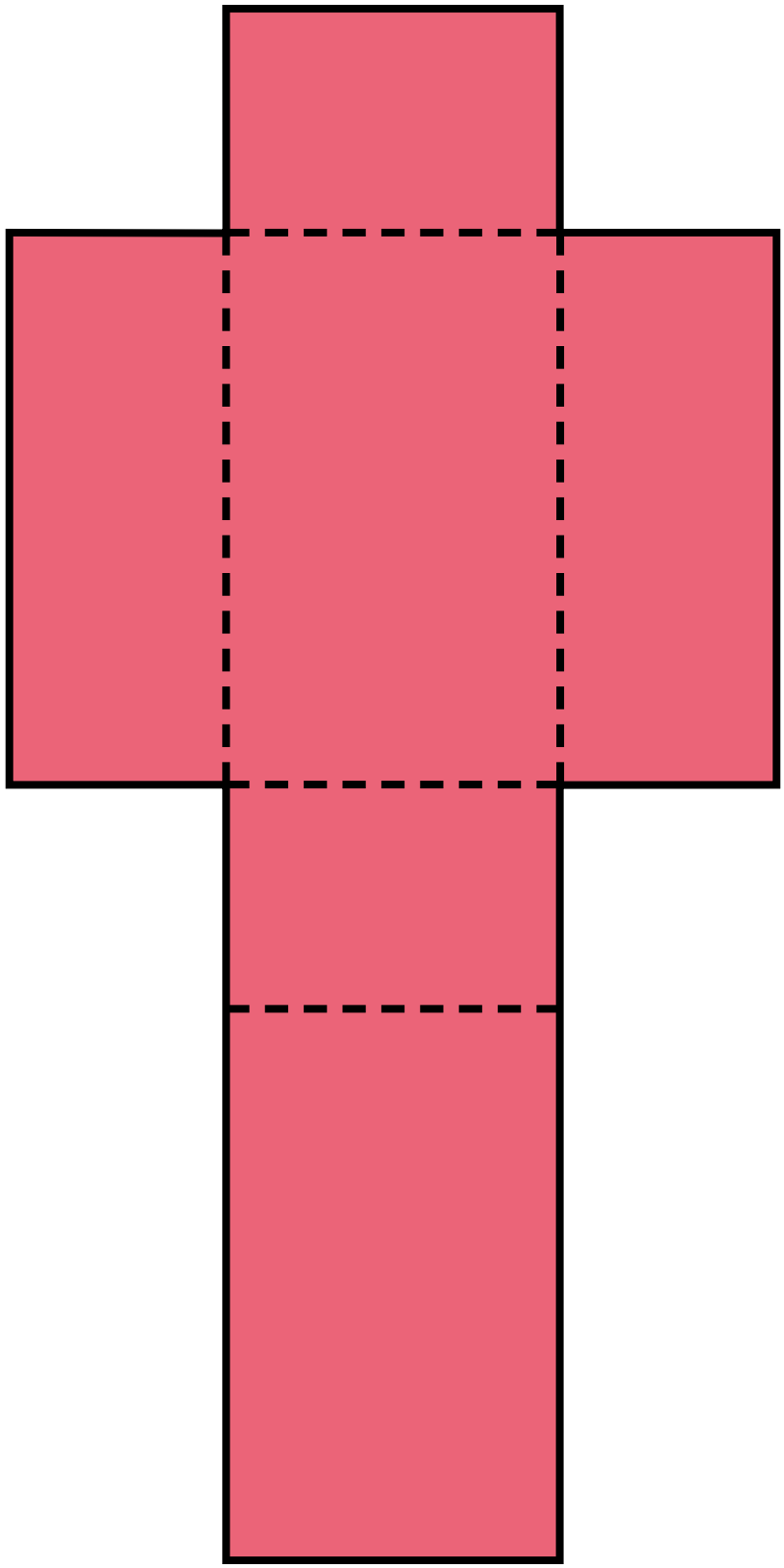
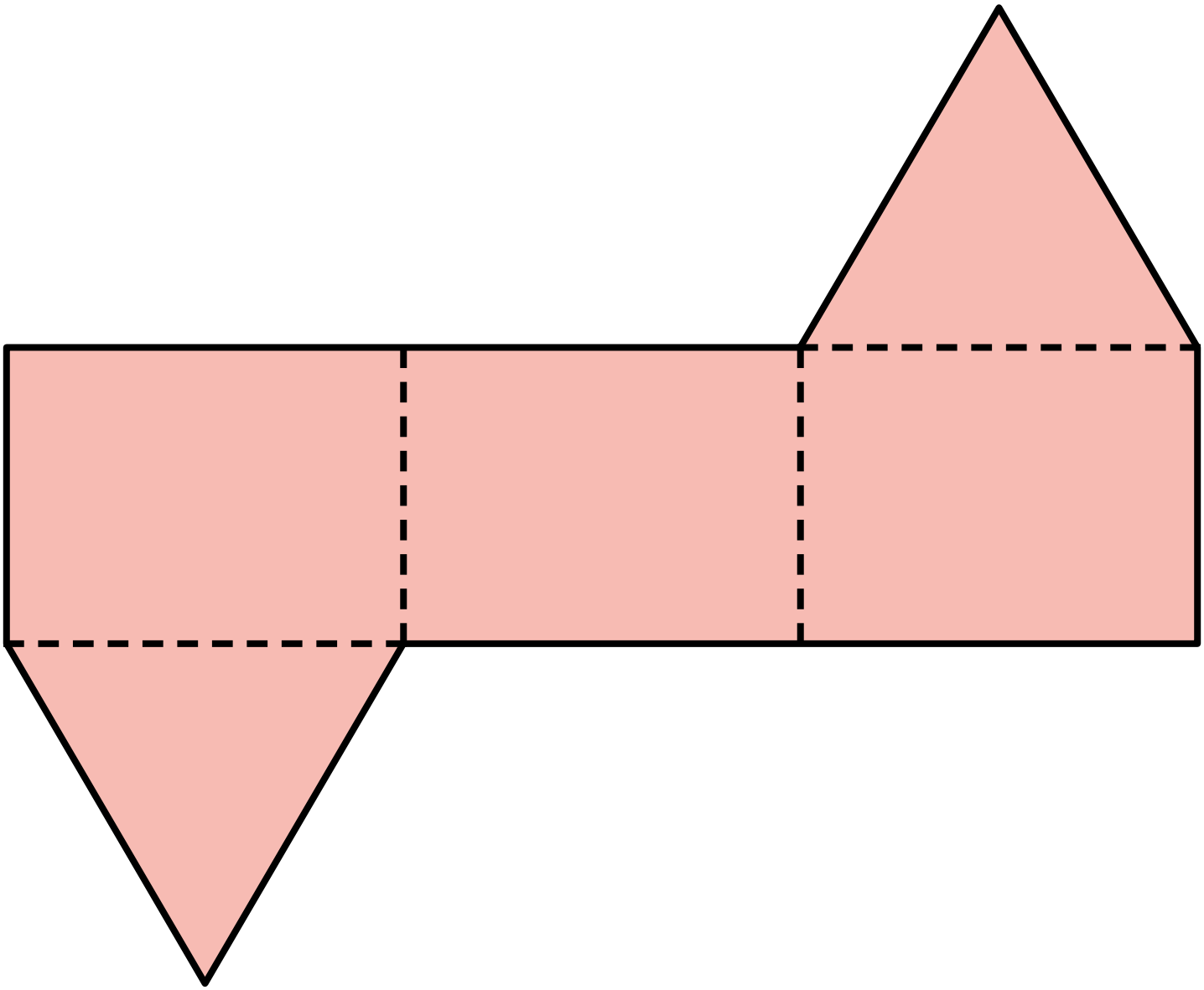


Net of a Triangular Prism



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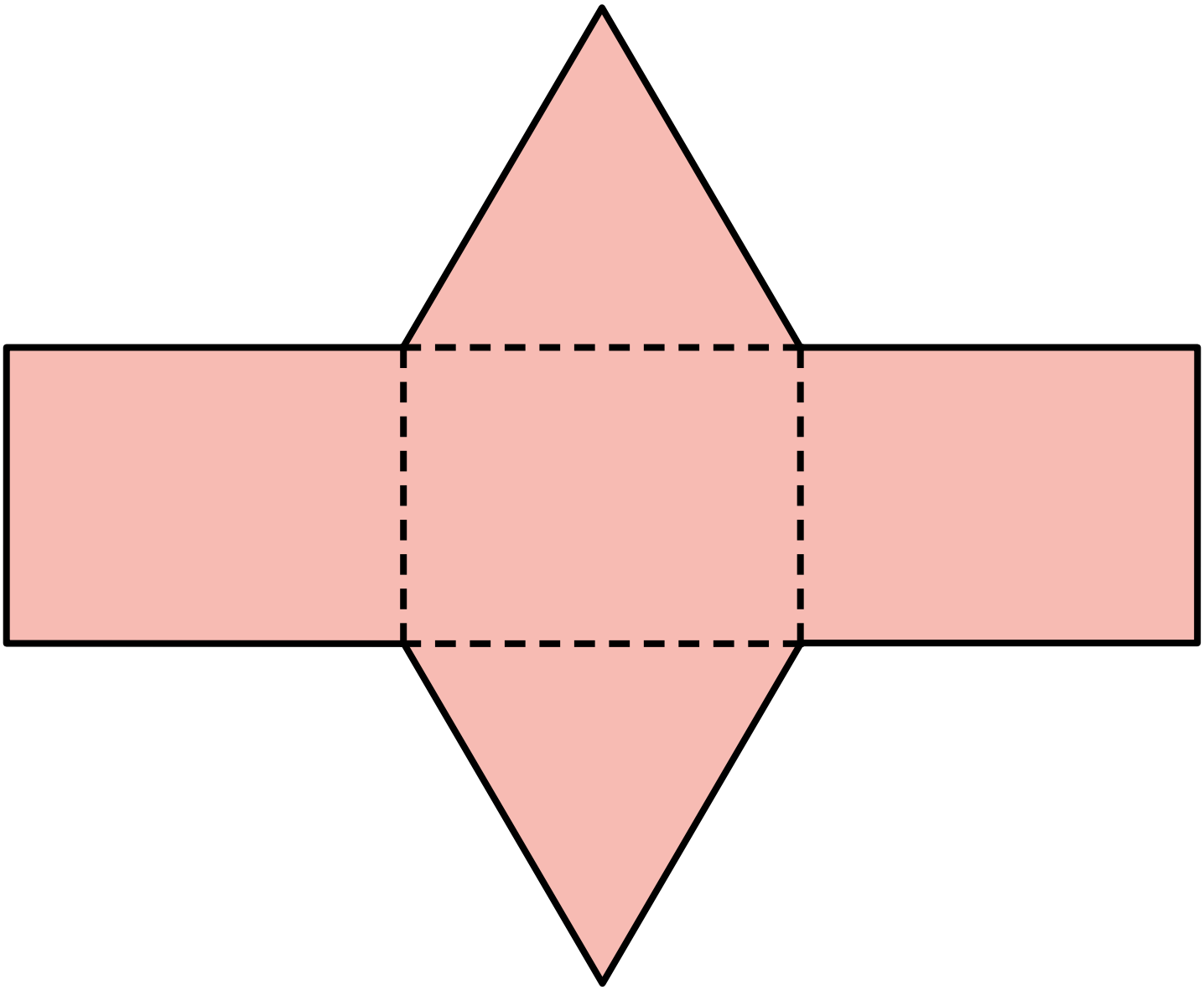
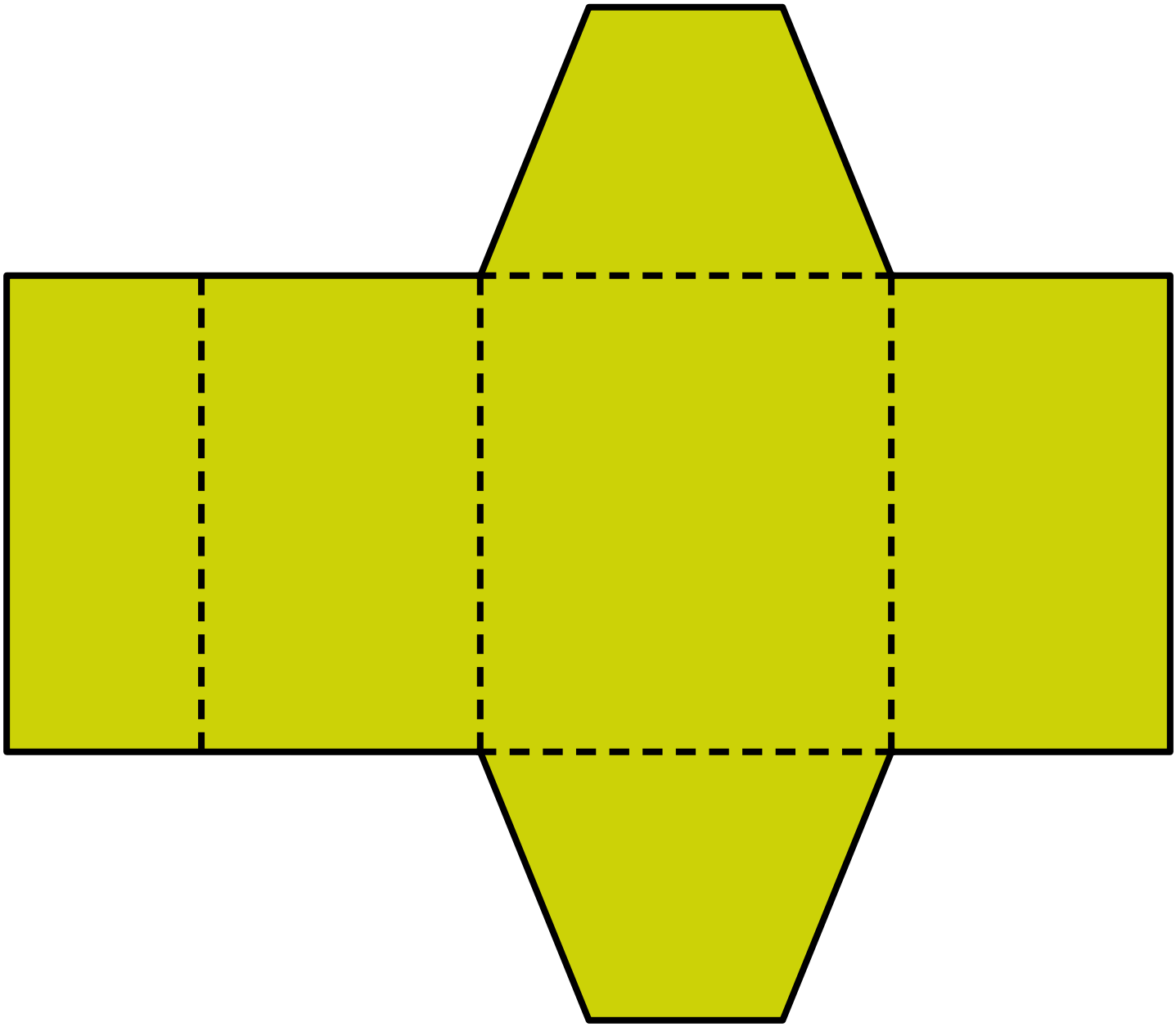
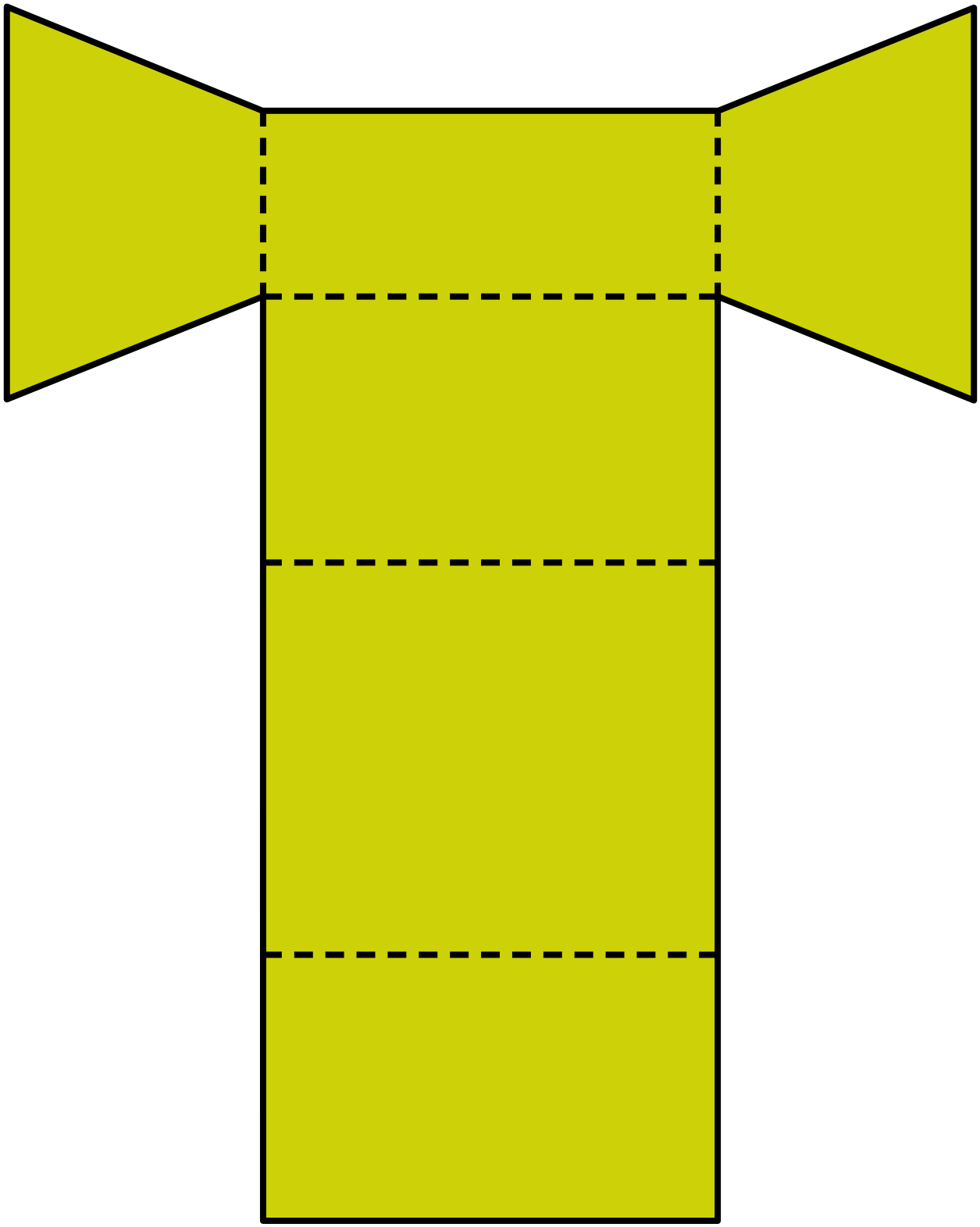


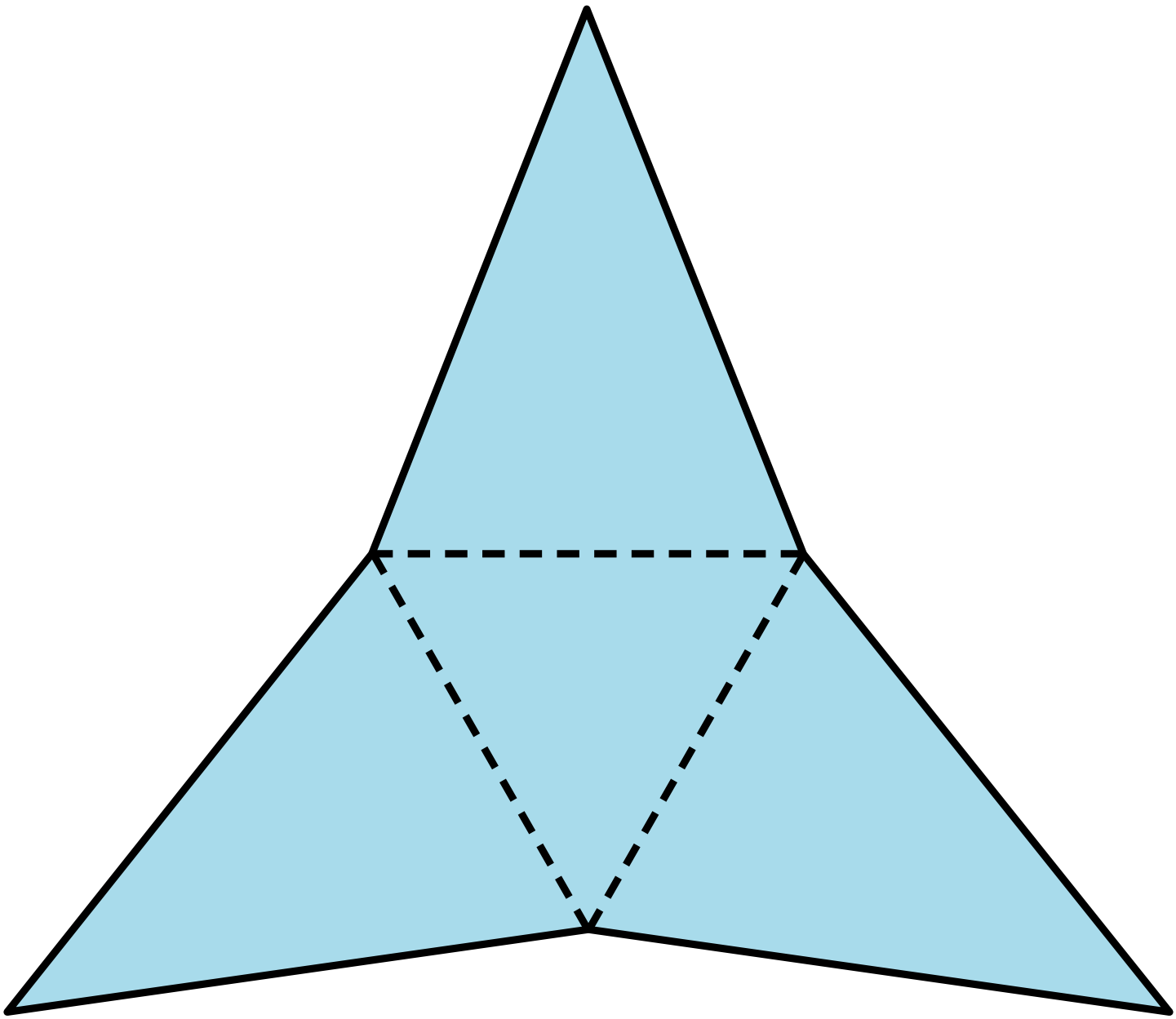
Net of a Trapezoidal Prism



Net of a Trapezoidal Prism



Net of a Triangular Pyramid



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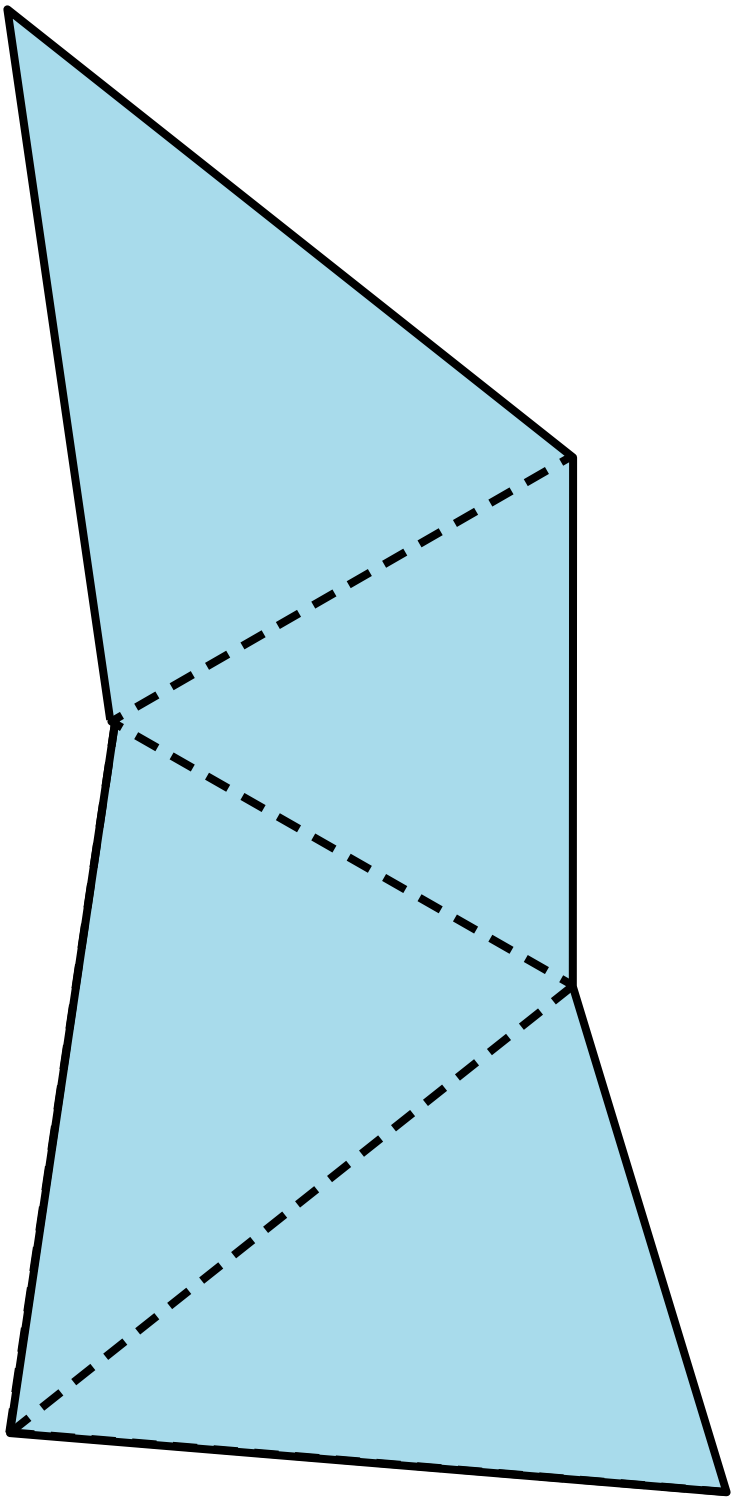
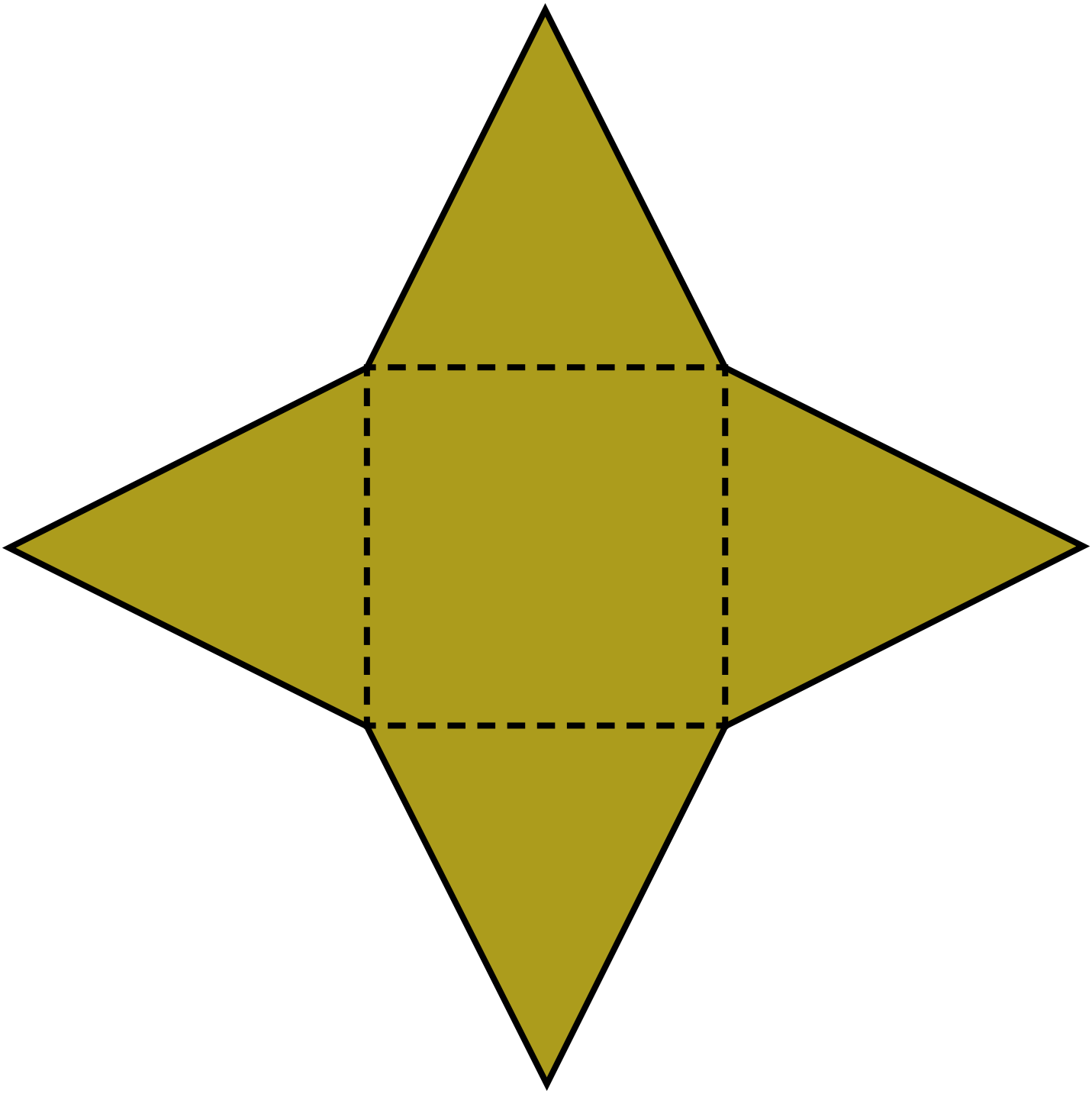
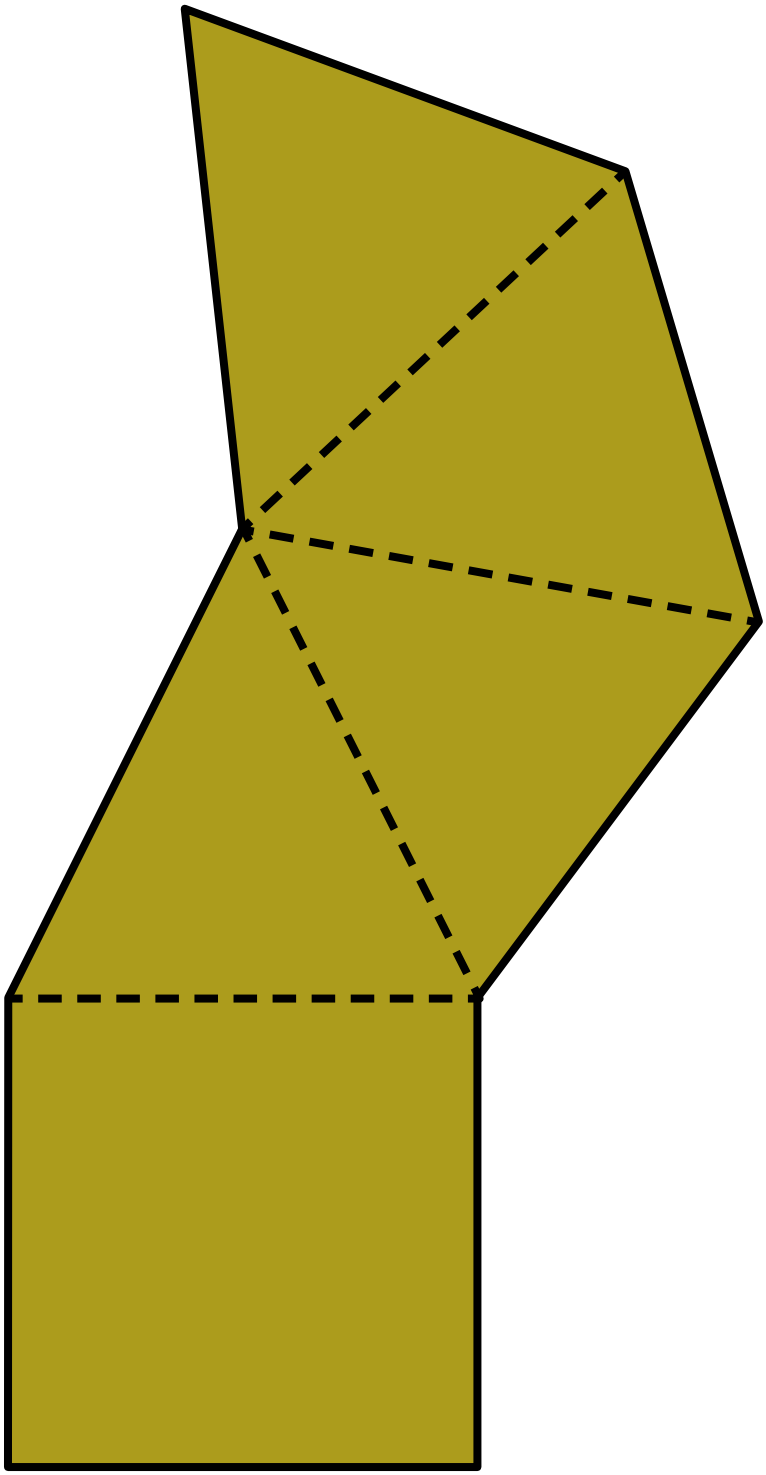


Net of a Square Pyramid



Net of a Square Pyramid



Notes