OXFORD

New Syllabus

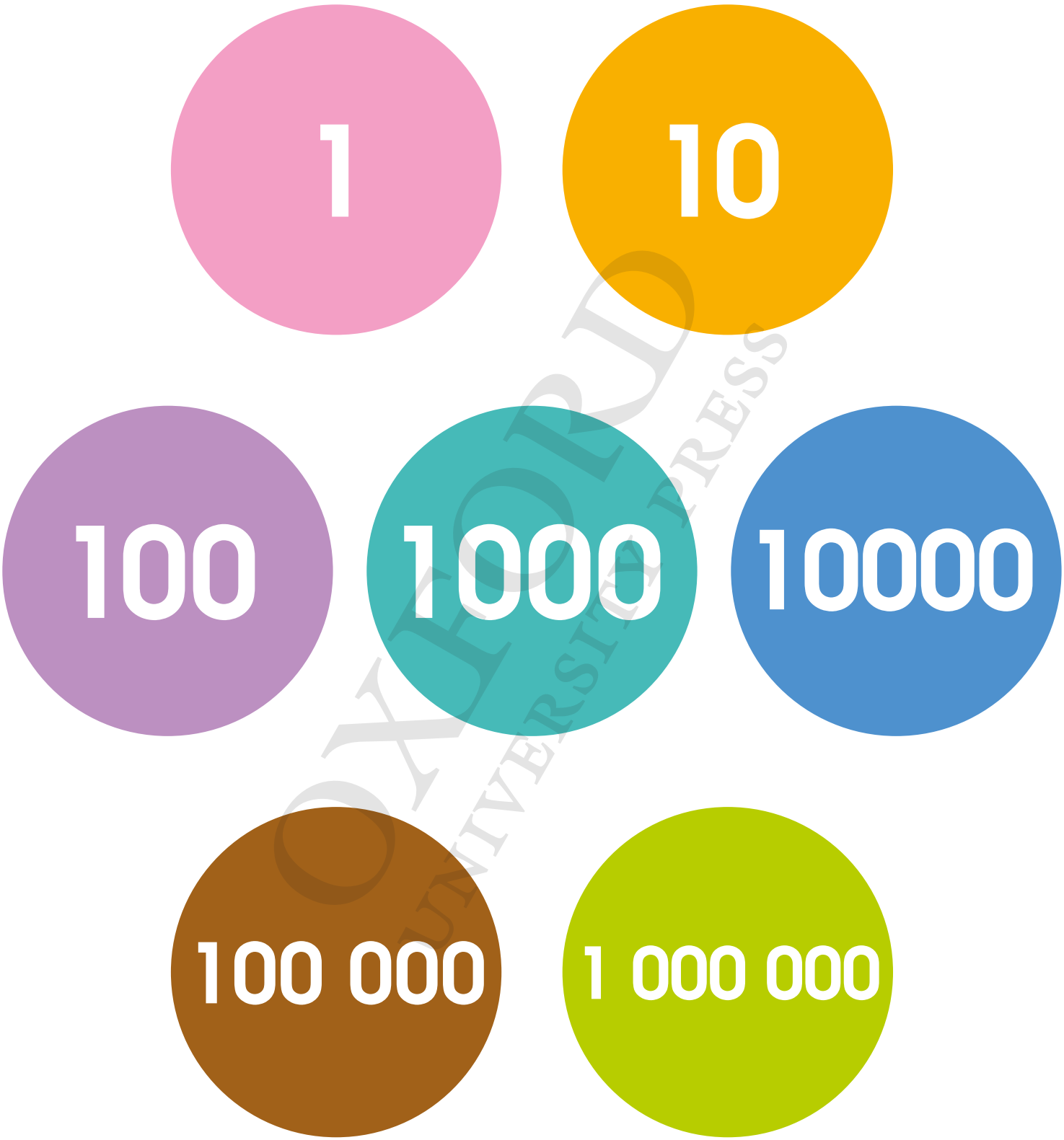
PRIMARY MATHEMATICS

Activity Handbook

5

Consultant and Author: **Shazia Asad**

Number Discs



Place-Value Chart (Ones to Hundred Thousands)

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

hundred thousands	ten thousands	thousands	hundreds	tens	ones

* Note to teacher:

- Cut out and laminate the place-value charts.

NSPM 5 Chapter 1 Lesson 1

Place-Value Chart (Ones to Millions)

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

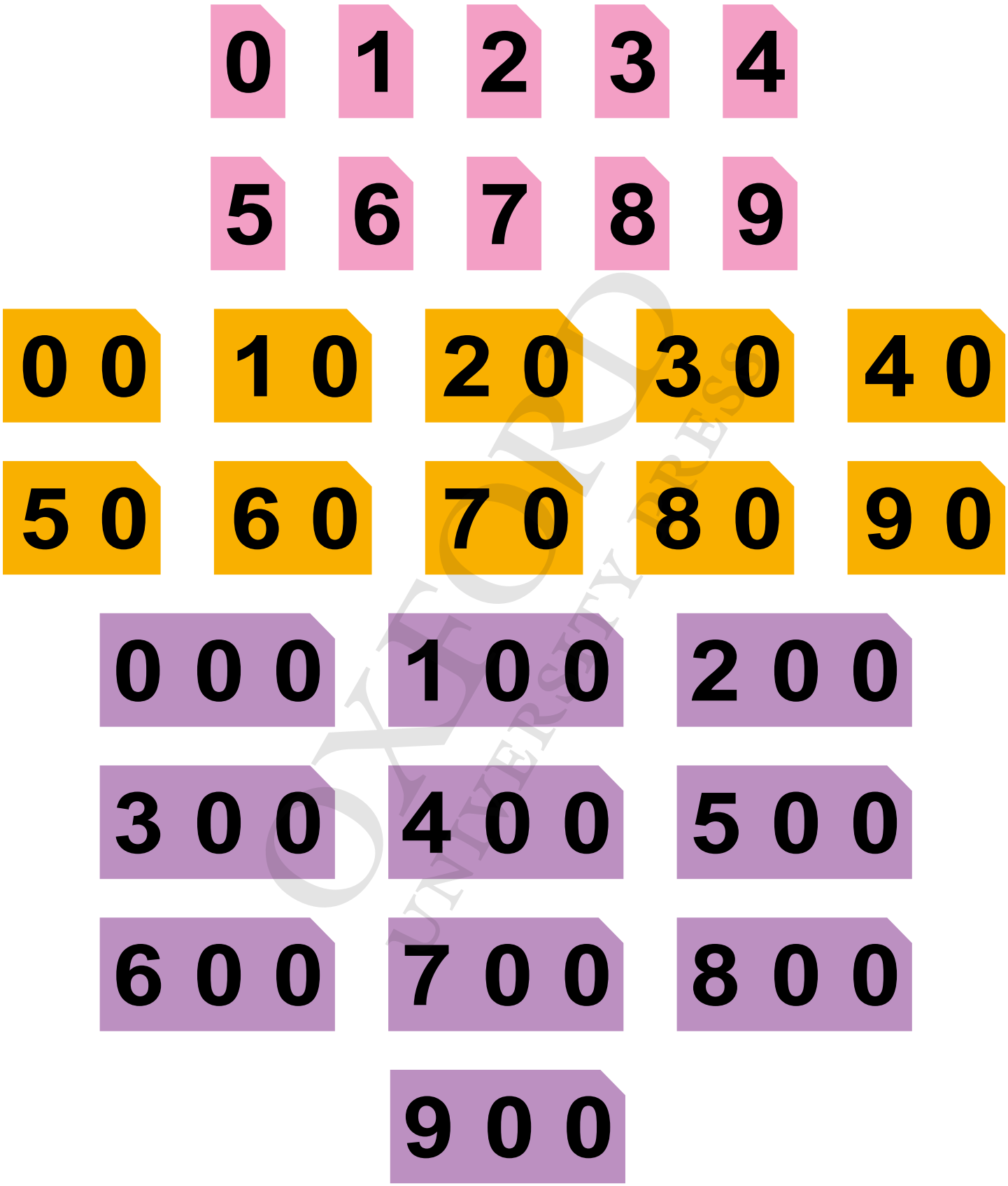
Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

Millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

* Note to teacher:

- Cut out and laminate the place-value charts.

Place-Value Cards (Ones, Tens and Hundreds)



Place-Value Cards (Thousands)

0 0 0 0	1 0 0 0
2 0 0 0	3 0 0 0
4 0 0 0	5 0 0 0
6 0 0 0	7 0 0 0
8 0 0 0	9 0 0 0

Place-Value Cards (Ten Thousands)

0 0 0 0 0	1 0 0 0 0
2 0 0 0 0	3 0 0 0 0
4 0 0 0 0	5 0 0 0 0
6 0 0 0 0	7 0 0 0 0
8 0 0 0 0	9 0 0 0 0

Place-Value Cards (Hundred Thousands)

0 0 0 0 0 0	1 0 0 0 0 0
2 0 0 0 0 0	3 0 0 0 0 0
4 0 0 0 0 0	5 0 0 0 0 0
6 0 0 0 0 0	7 0 0 0 0 0
8 0 0 0 0 0	9 0 0 0 0 0

Place-Value Cards (Millions)

0 0 0 0 0 0 0	1 0 0 0 0 0 0
2 0 0 0 0 0 0	3 0 0 0 0 0 0
4 0 0 0 0 0 0	5 0 0 0 0 0 0
6 0 0 0 0 0 0	7 0 0 0 0 0 0
8 0 0 0 0 0 0	9 0 0 0 0 0 0

Hundred Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

* Note to teacher:

- Cut out and laminate the hundred chart. Use it to identify prime numbers, composite numbers, multiples and factors.

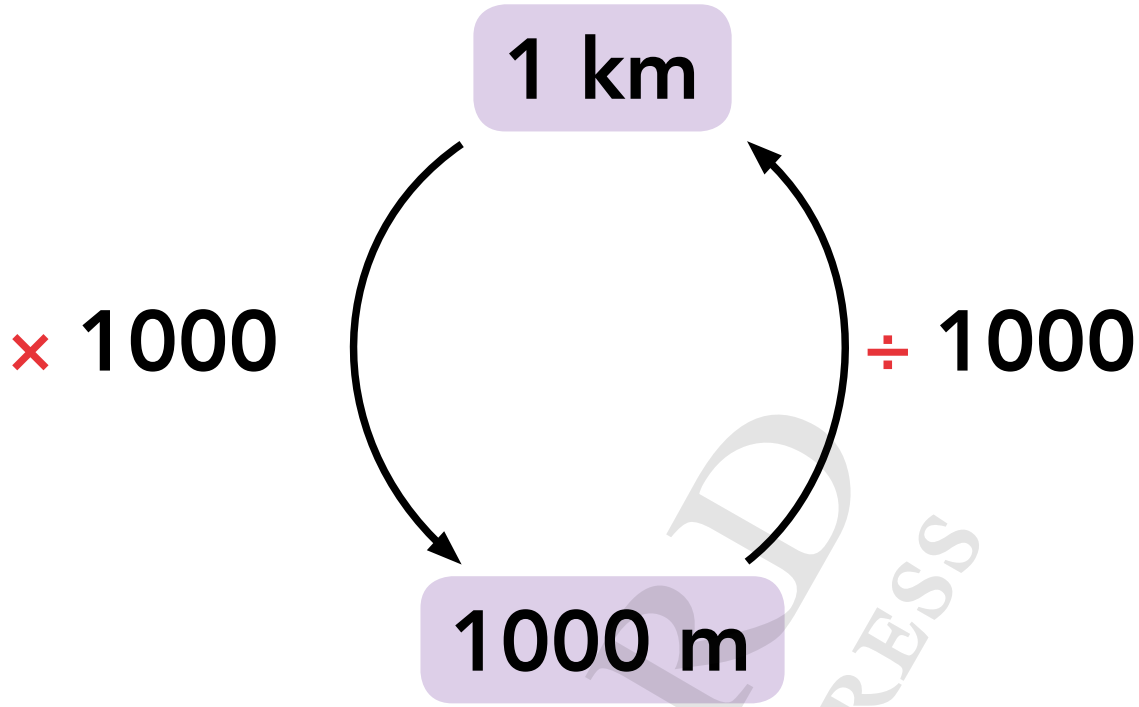
Numeral Cards (1, 2, 5)

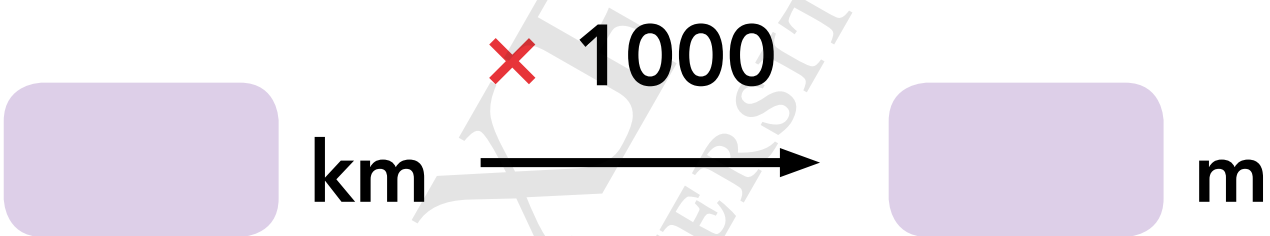
1	1	2
2	5	5
5		

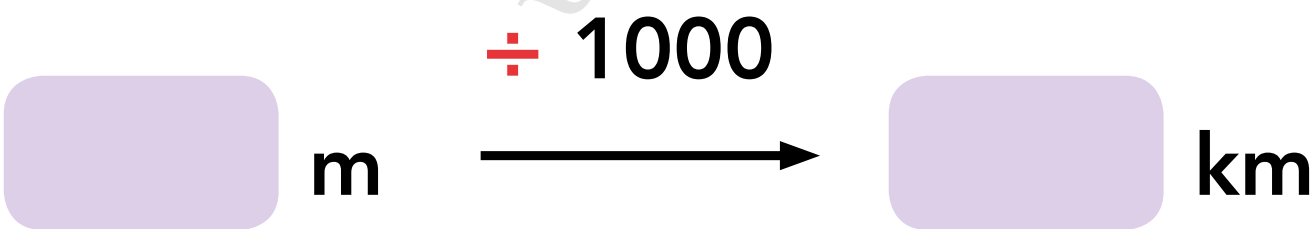
* Note to teacher:

- *Use these numeral cards for 'Mind Workout' (Textbook 5 P21).*

Conversion of Unit Cards







Mathematical Expression Cards

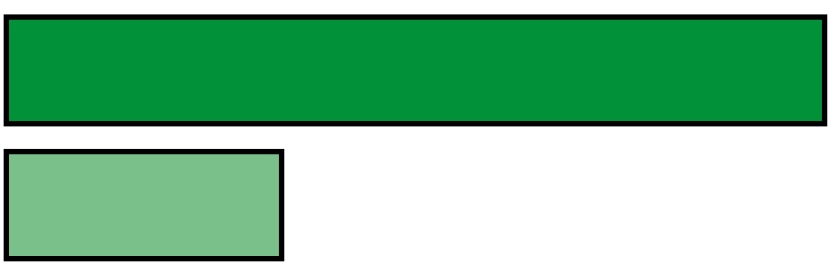
100 + (☐ × ☐) − ☐ = ☐

200 + (☐ × ☐) − ☐ = ☐

* Note to teacher:

- *Use these cards for 'Activity Time' (Textbook 5 P44).*

Bar Model Strips



Multiplication Cards

$32 \times 25 = \square \times \square \times 25$

$= $

$= $

$25 \times 48 = \square \times \square \times \square$

$= $

$= $

$12 \times 250 = \square \times \square \times \square$

$= $

$= $

* Note to teacher:

- Cut out and laminate these cards. Use these cards for 'Maths Journal' (Textbook 5 P52). Use the back of these cards to create other multiplication equations.

Table

	Number of balls
At first	x
Add 1 ball	$x + 1$
Remove 1 ball	$x - 1$
Add 2 balls	
Add 5 balls	
Remove 3 balls	
Remove 8 balls	

* Note to teacher:

- *Use this table for Let's Learn 2 (Textbook 5 P54).*

Table

	Bala's age (years)	Cousin's age (years)
Now	t	$2t$
2 years ago		$2t - 2$
10 years ago		
In 5 years' time		
In 20 years' time		

* Note to teacher:

- *Use this table for Let's Learn 12 (Textbook 5 P58).*

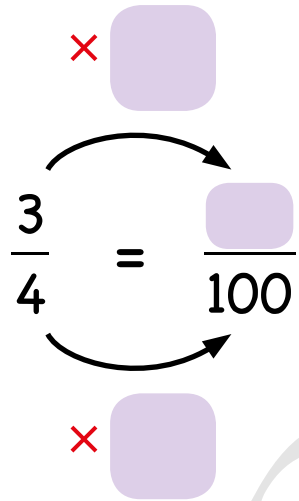
Table

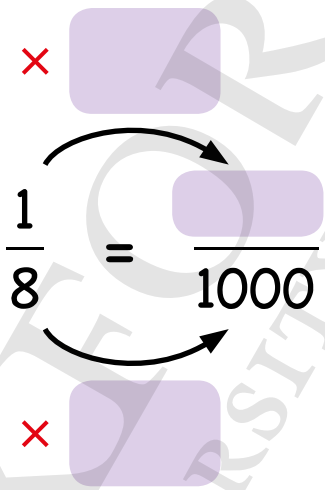
Colour of beads	Number of beads
Red	*U*
Blue	
Green	
Orange	

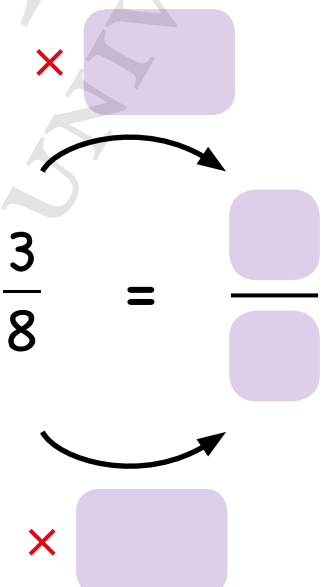
* Note to teacher:

- *Use this table for Let's Learn 13 (Textbook 5 P54).*

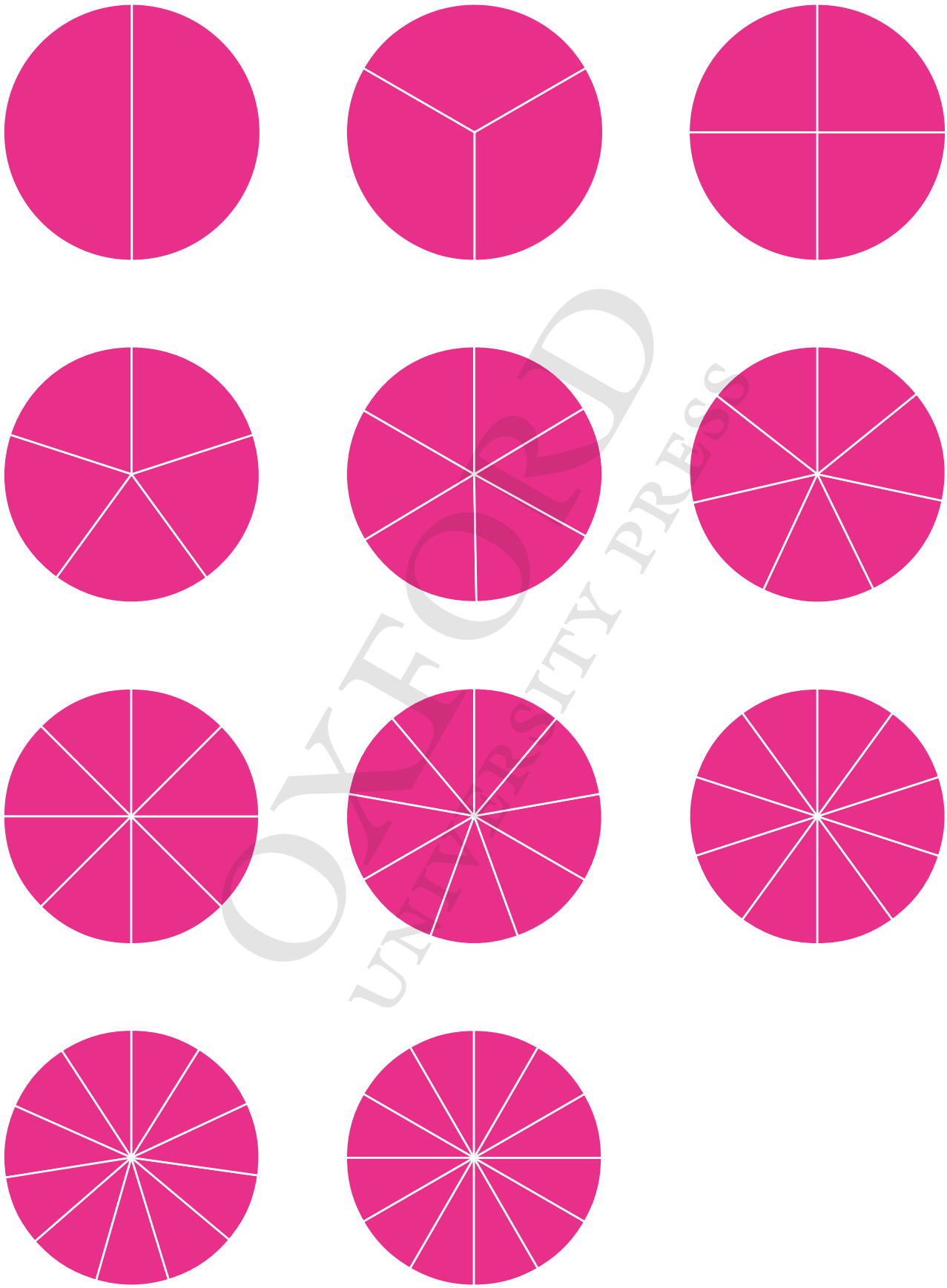
Conversion of Fraction Cards







Fraction Discs



4-Step Approach to Problem Solving Template

Step 1: Understanding the problem

Step 2: Translate key elements into a diagram (model)

Step 3: Examine the model and write the number equation

Step 4: Check the answer

Word Problem Card

Mrs Chan baked 80 cupcakes. She sold $\frac{3}{5}$ of the cupcakes and her family ate $\frac{1}{4}$ of the remaining cupcakes. How many cupcakes had she left?

$$1 - \frac{3}{5} - \frac{1}{4} = \frac{3}{20}$$

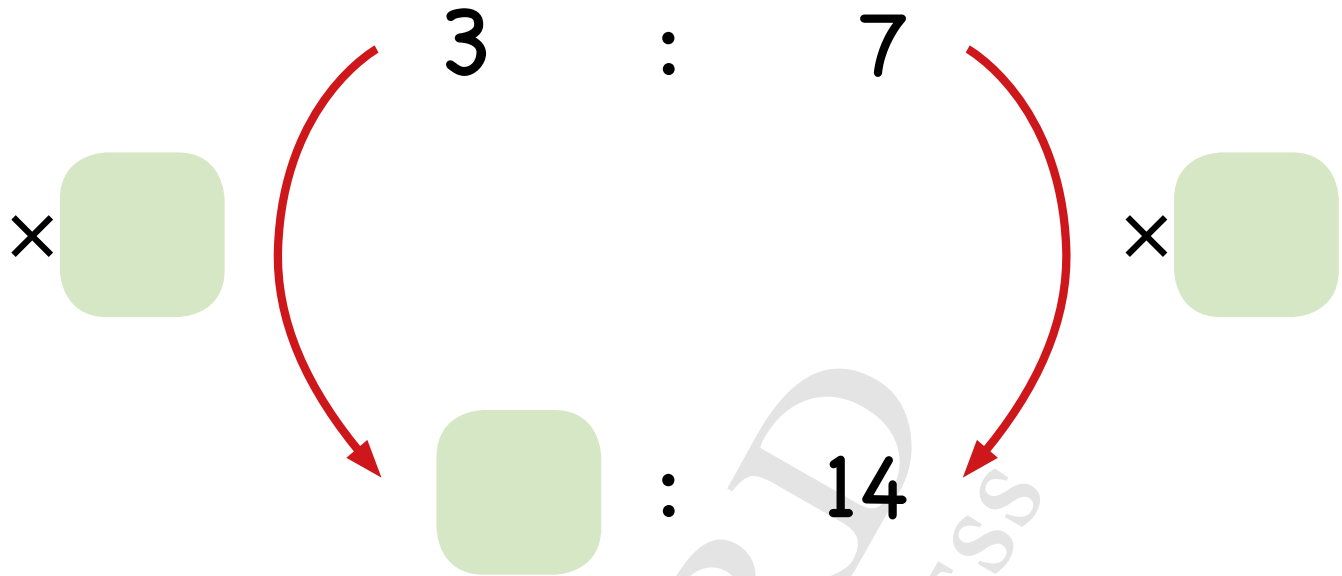
$$\frac{3}{20} \times 80 = 12$$

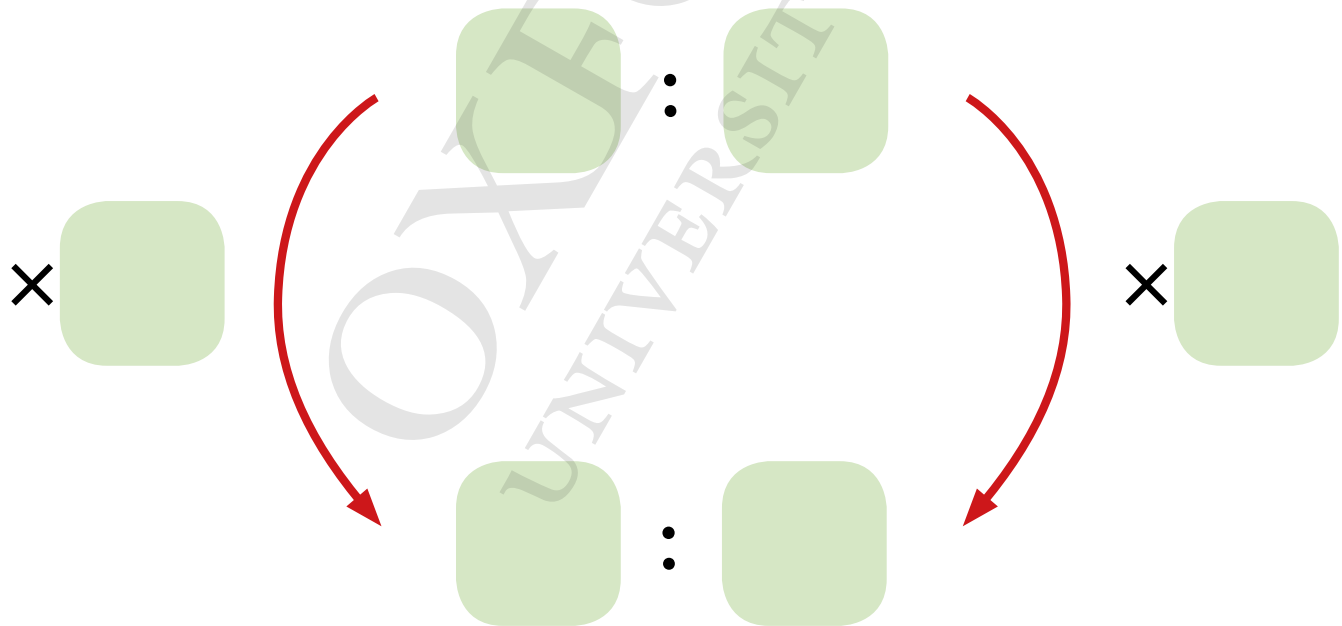
Mrs Chan had 12 cupcakes left.

* Note to teacher:

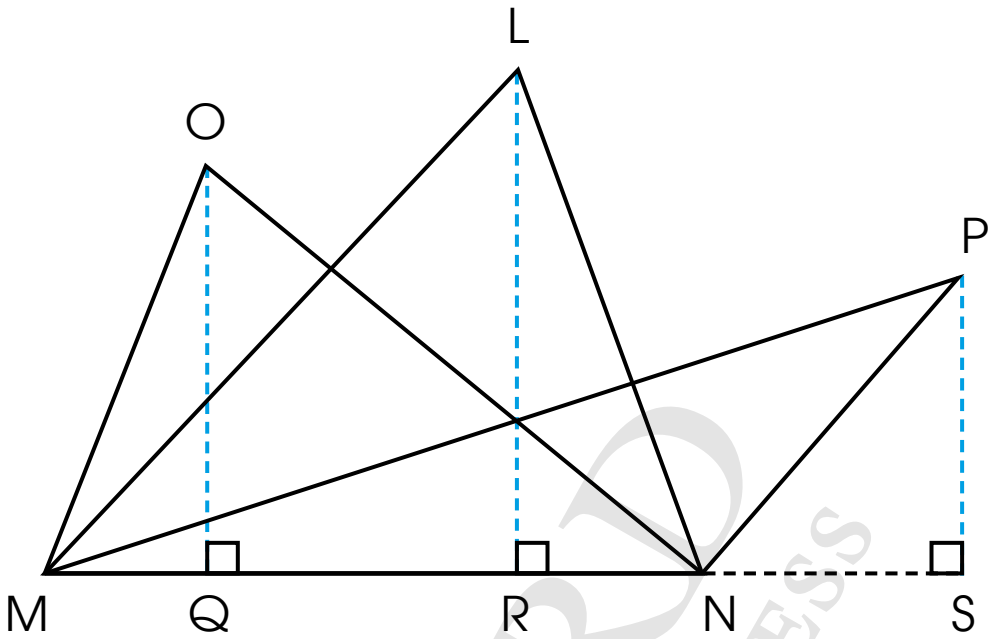
- This word problem is for 'Maths Journal' (Textbook 5 P100).

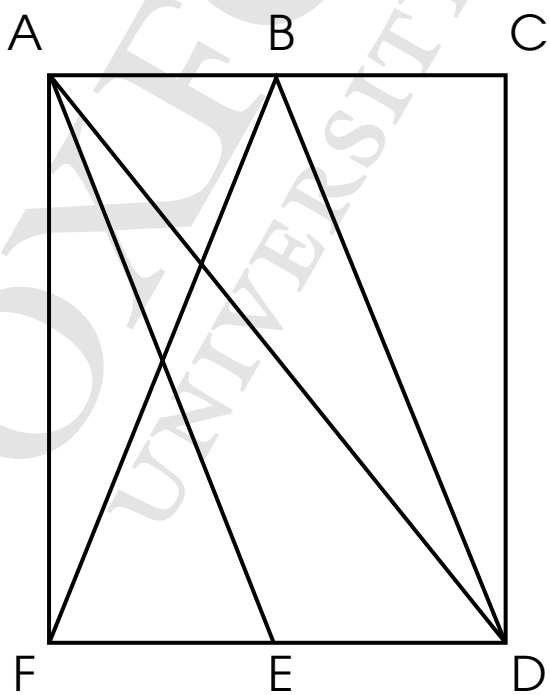
Equivalent Ratio Cards





Triangles and Rectangle

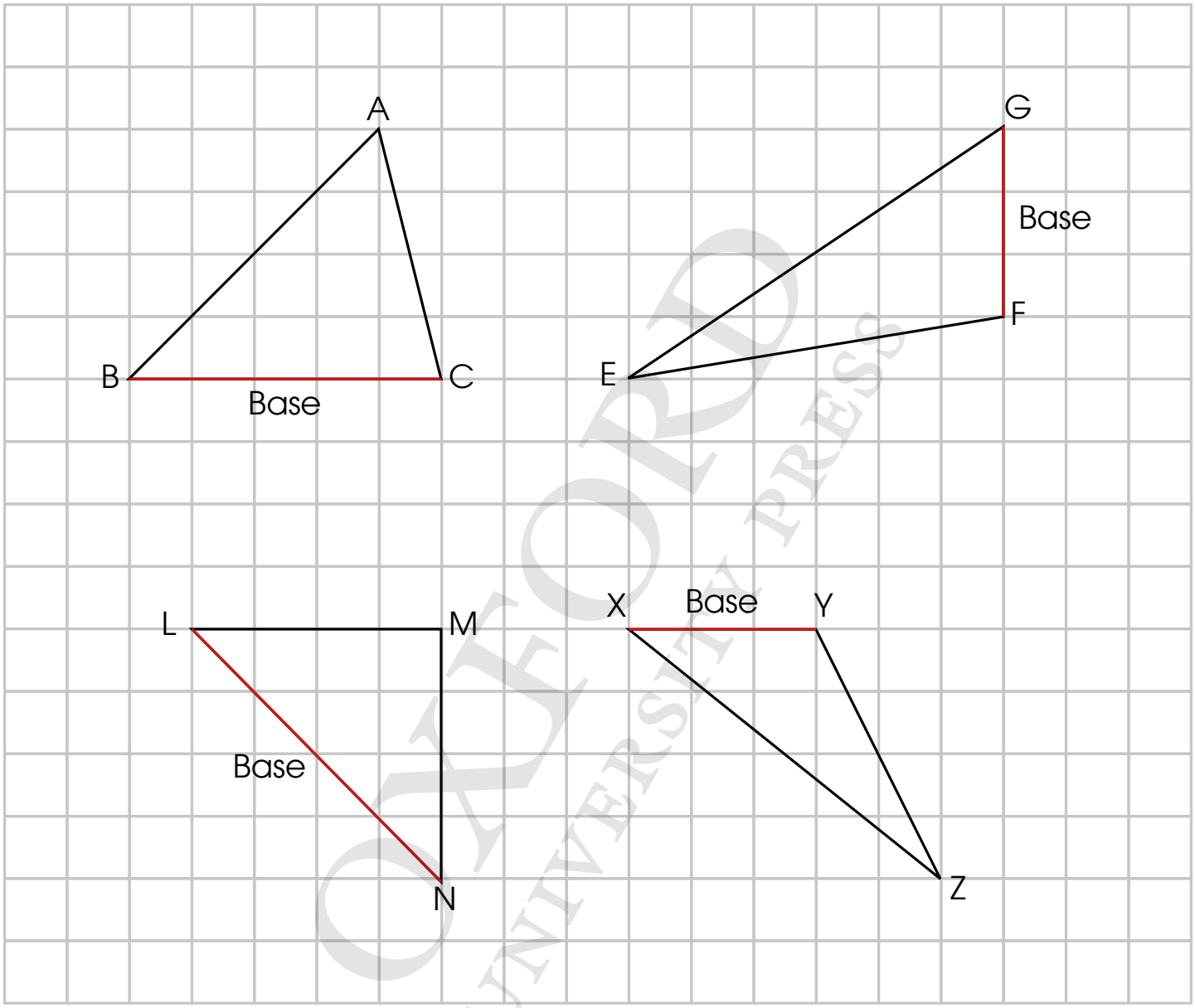




* Note to teacher:

- *Use these figures for Let's Learn 5 and 6 (Textbook 5 P124).*

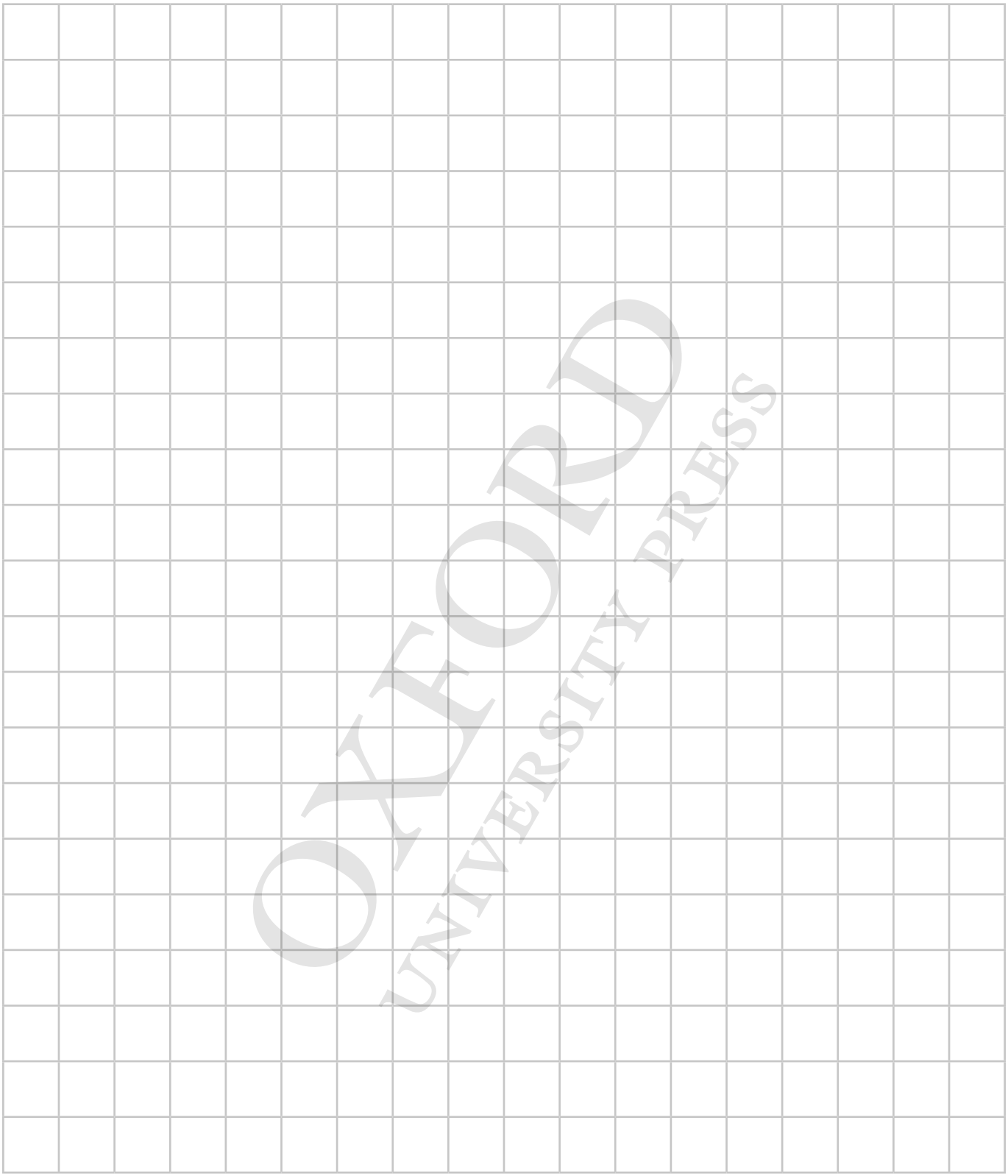
Triangles on Square Grid



* Note to teacher:

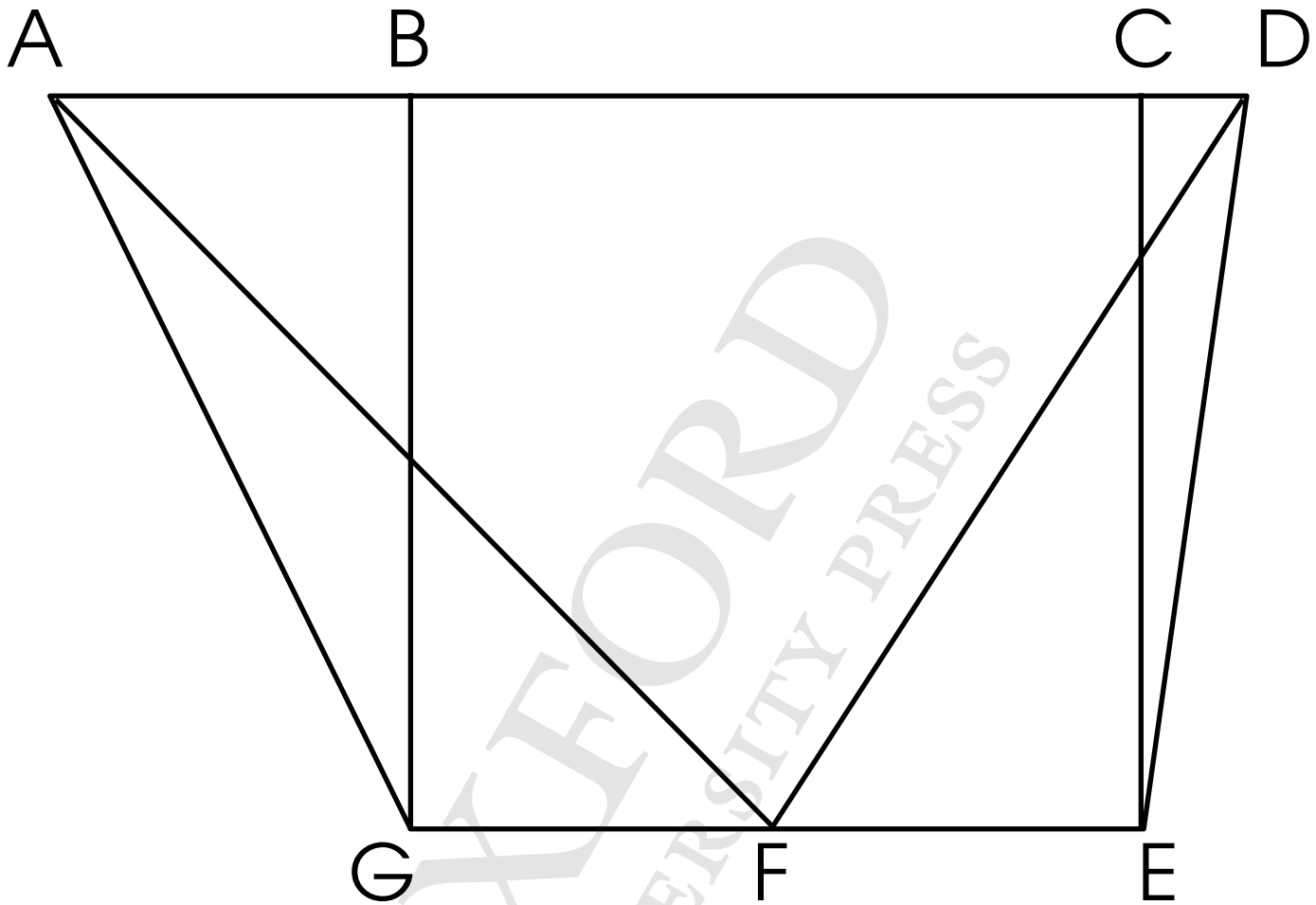
- *Use this for 'Activity Time' (Textbook 5 P127).*

Square Grid Paper



NSPM 5 Chapter 6 Lesson 1, Chapter 7 Lesson 1,
Chapter 13 Lesson 1, Chapter 14 Lesson 1

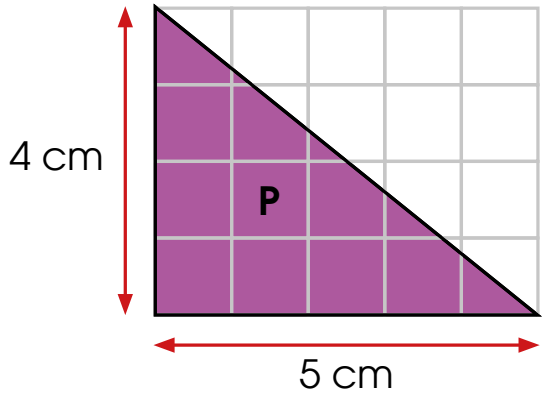
Figure

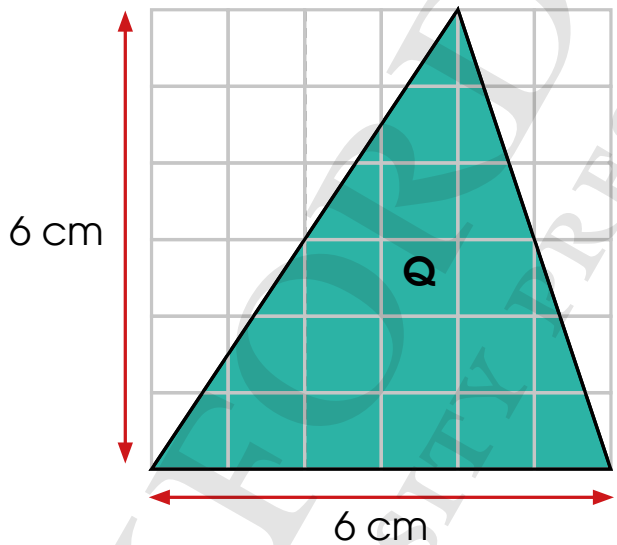


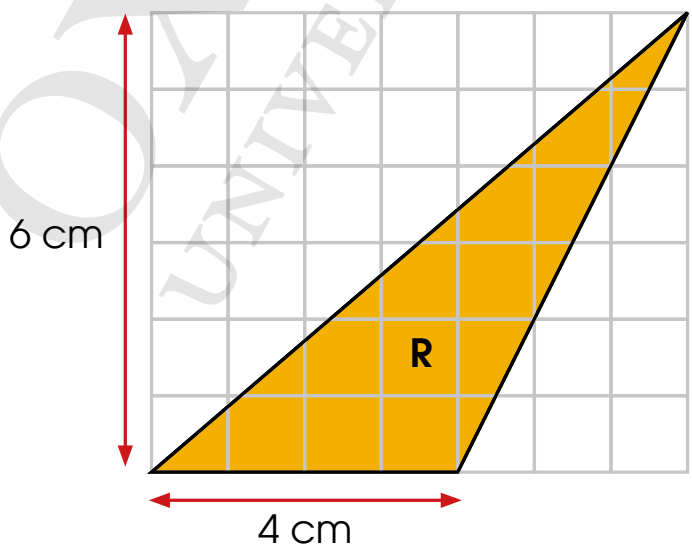
* Note to teacher:

- *Use this figure for Question 4 of 'Practice' (Textbook 5 P129).*

Triangles on Square Grid







* Note to teacher:

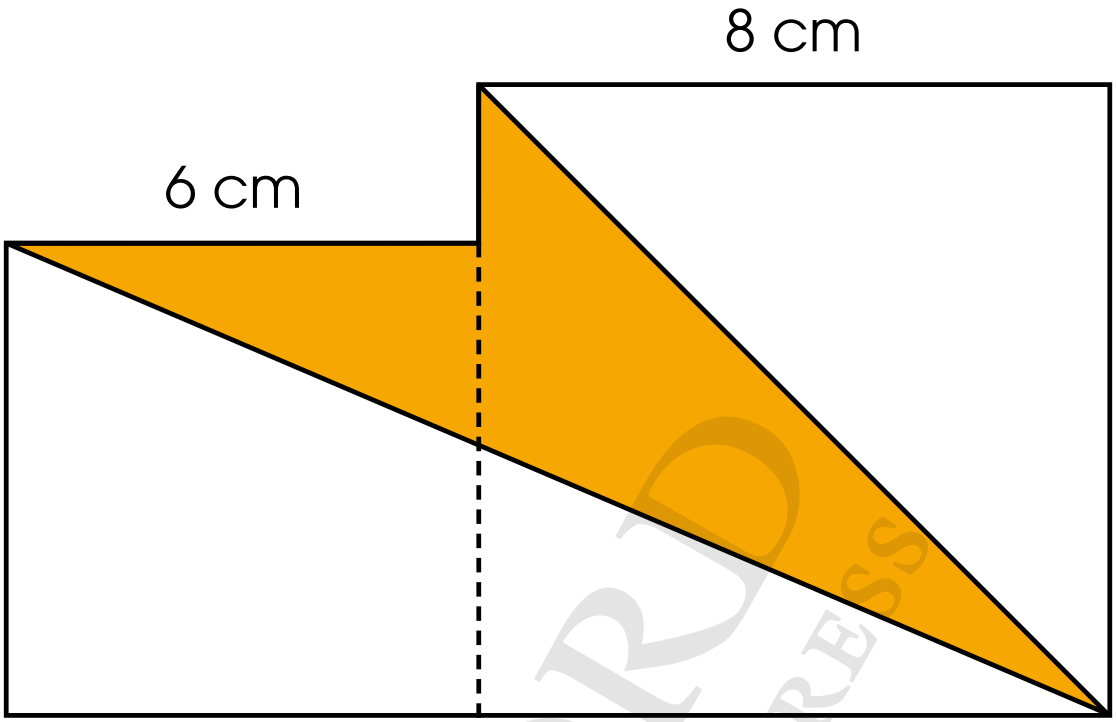
- *Use these triangles for Let's Learn 3 and 4 (Textbook 5 P133 – 134).*

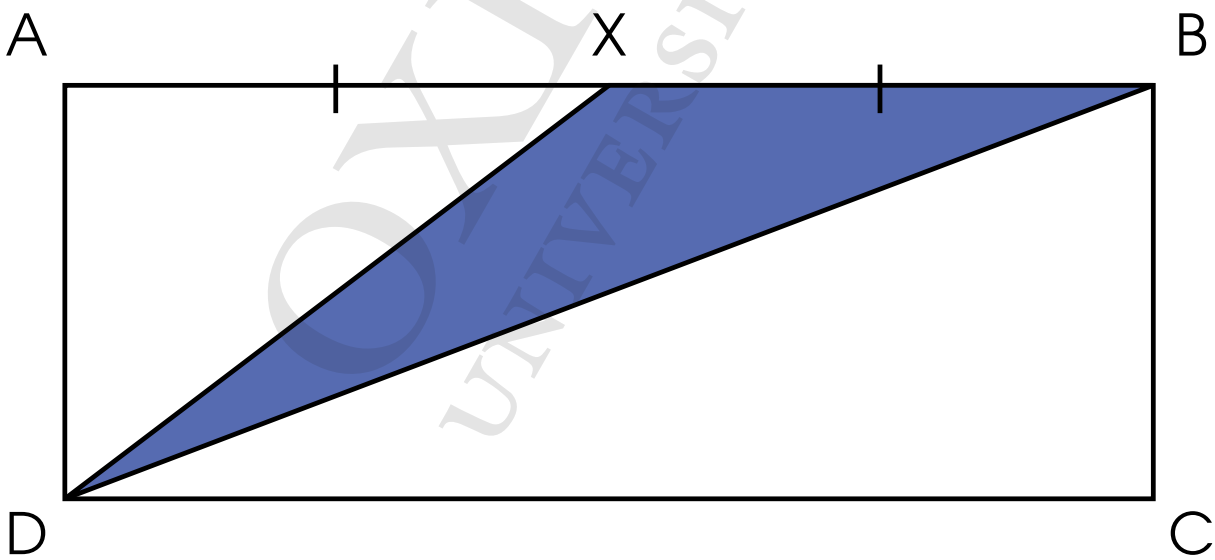
Cut-outs of Triangles, Squares and Rectangles

* Note to teacher:

- Use these shapes for 'Activity Time' (Textbook 5 P141).

Figures

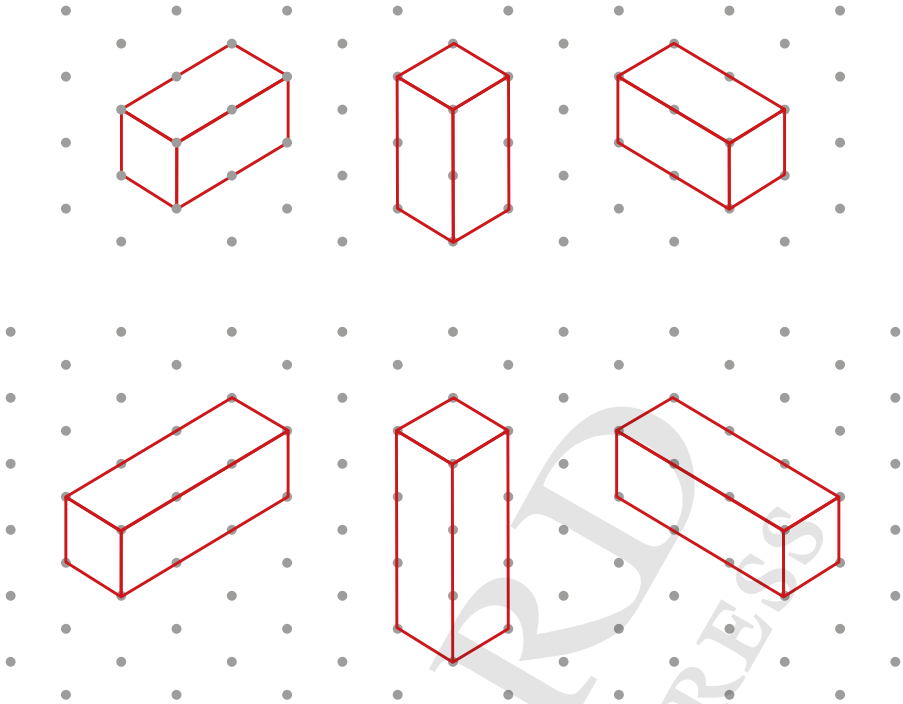


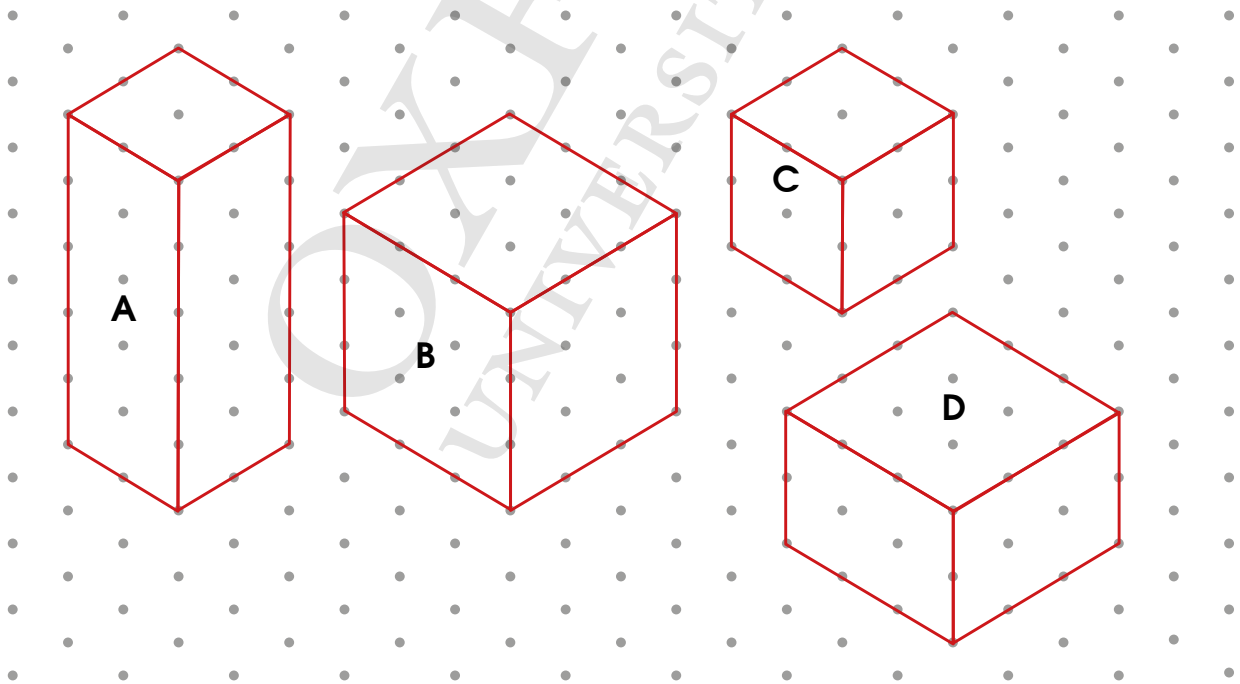


* Note to teacher:

- *Use these diagrams for 'Mind Workout' and 'Maths Journal' (Textbook 5 P142).*

Drawings of Cuboids on Isometric Grids

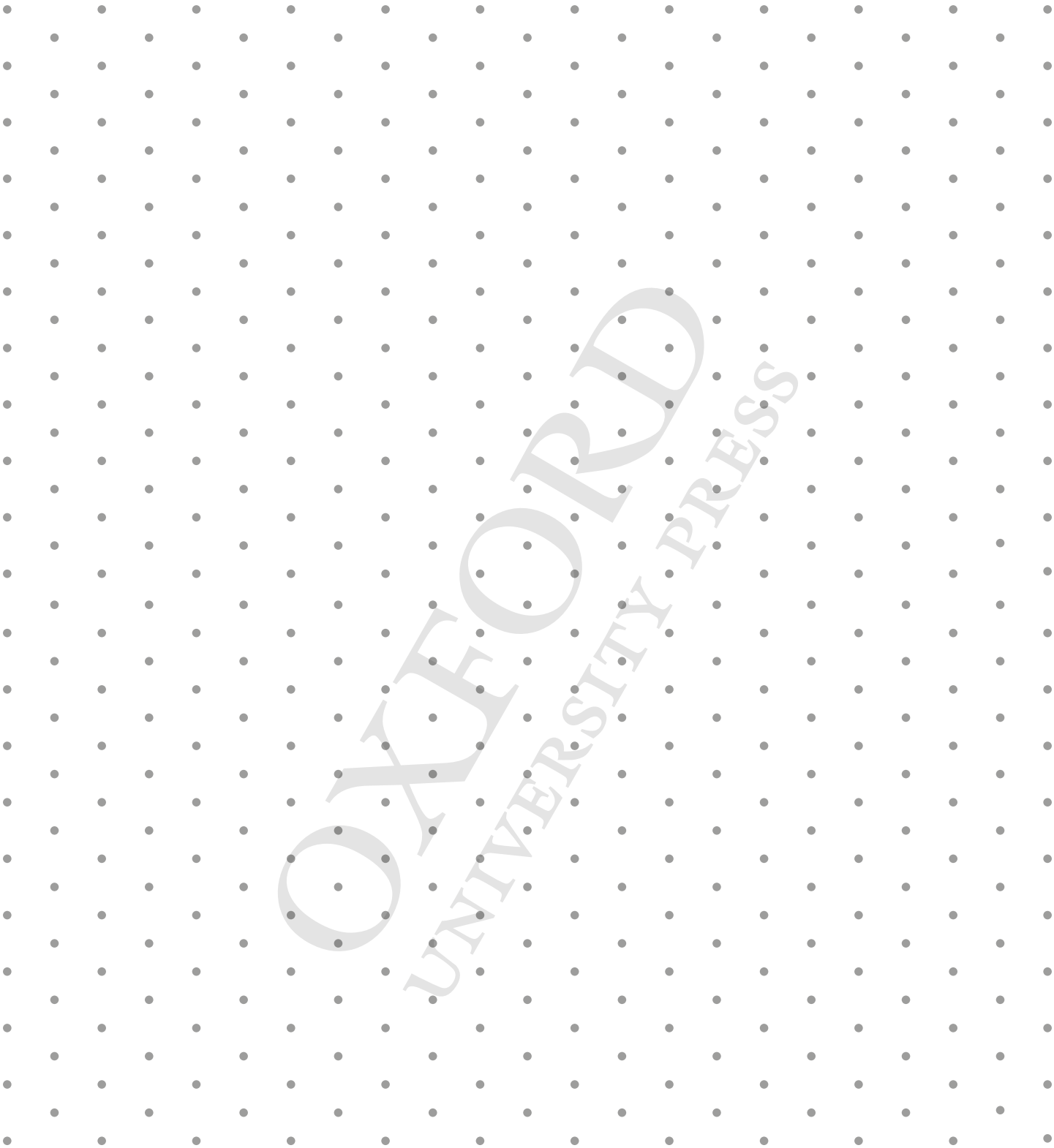




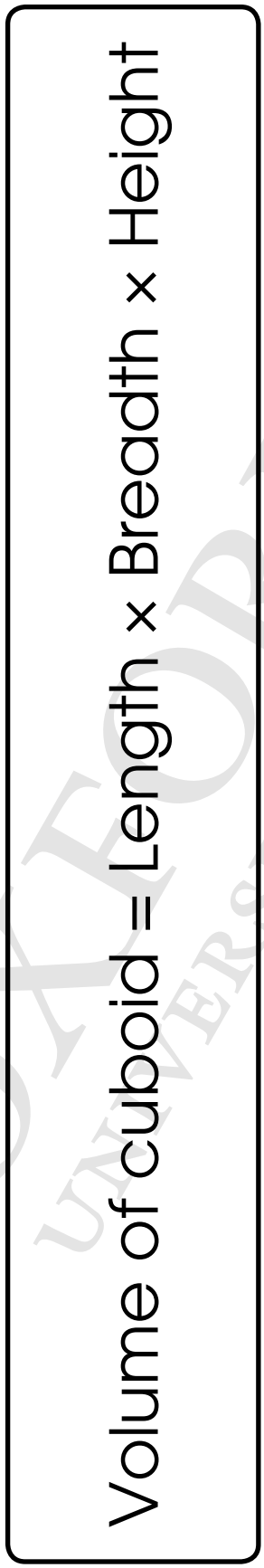
* Note to teacher:

- *Use these diagrams for Let's Learn 3 and 4 (Textbook 5 P150).*

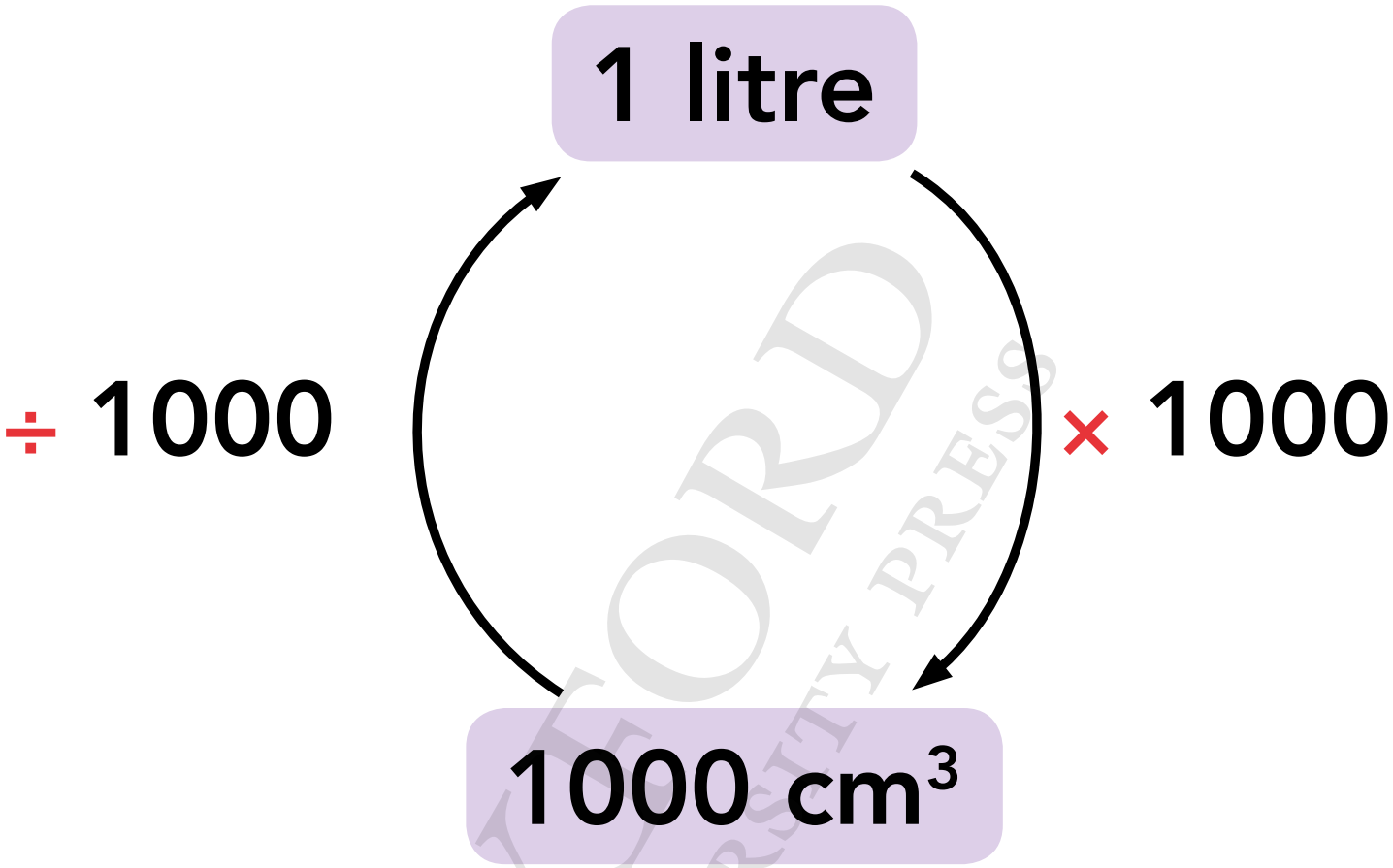
Isometric Grid Paper



Formula for Volume Card



Conversion of Unit of Volume Card



Place-Value Chart

Tens	Ones	Tenths	Hundredths	Thousandths

Tens	Ones	Tenths	Hundredths	Thousandths

Tens	Ones	Tenths	Hundredths	Thousandths

Tens	Ones	Tenths	Hundredths	Thousandths

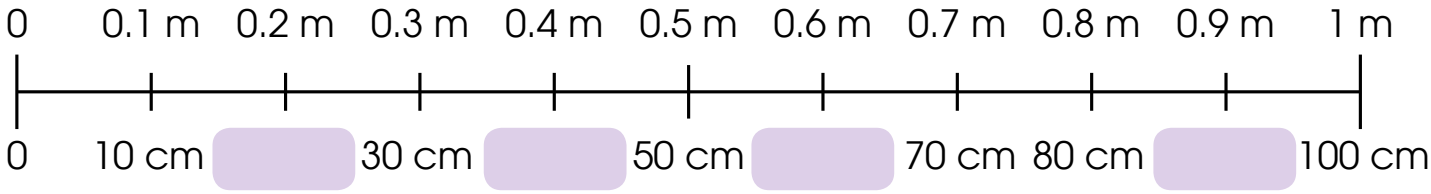
Tens	Ones	Tenths	Hundredths	Thousandths

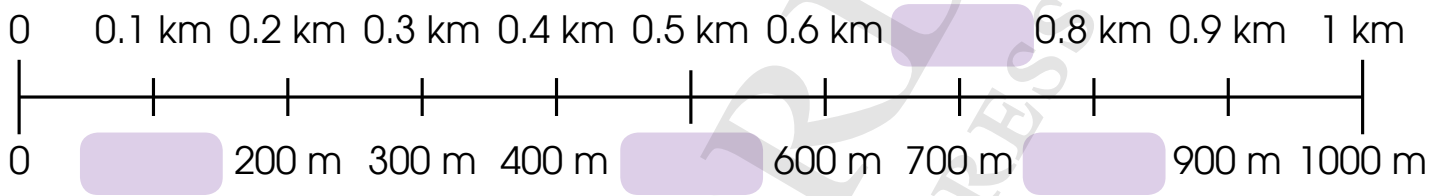
Tens	Ones	Tenths	Hundredths	Thousandths

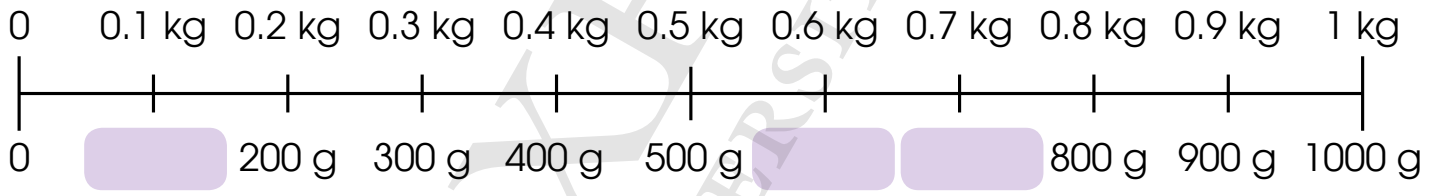
Tens	Ones	Tenths	Hundredths	Thousandths

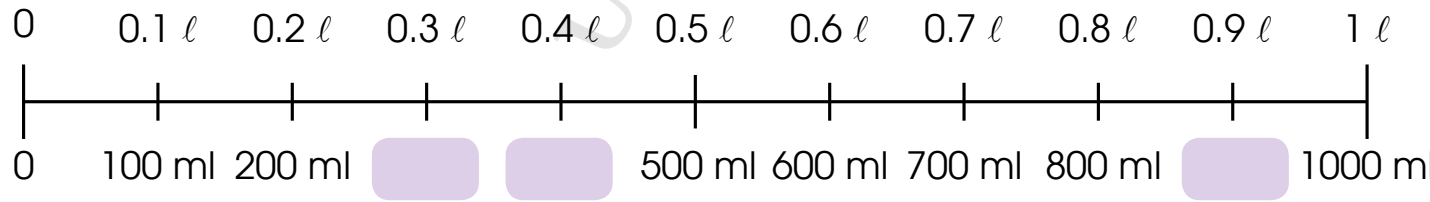
Decimal Discs

Number Lines









Decimal Cards

0.55	0.65	0.75

* Note to teacher:

- *Use these decimal cards for 'Activity Time' (Textbook 5 P186). Fill in as many blank cards with any decimal as desired.*

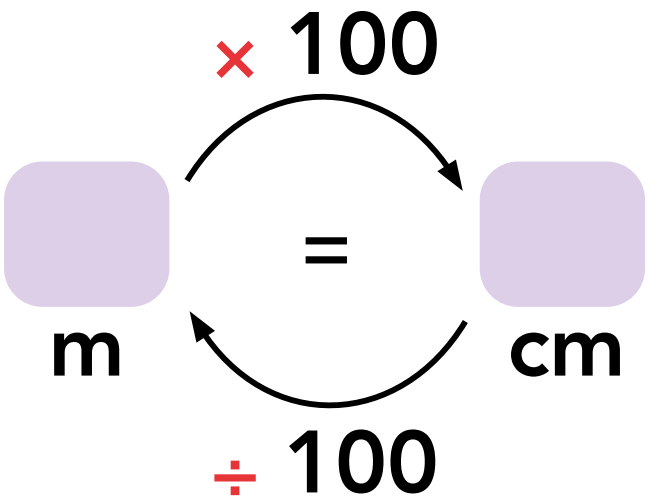
Unit of Measurement Conversion Cards

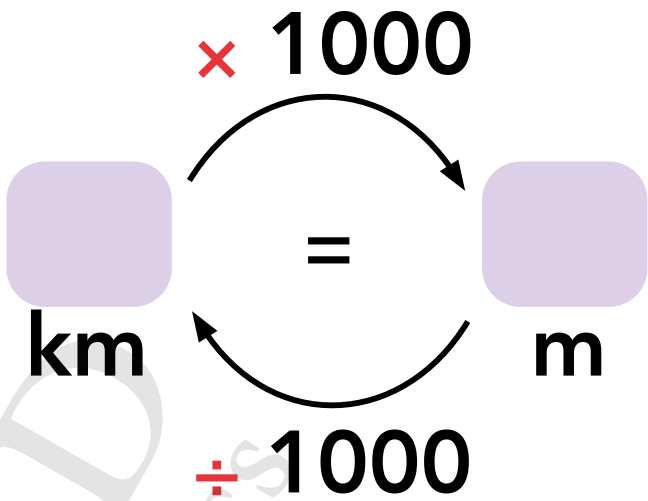
m to cm	cm to m
m to m and cm	m and cm to m
km to m	m to km
km to km and m	km and m to km
kg to g	g to kg
kg to kg and g	kg and g to kg
ℓ to ml	ml to ℓ
ℓ to ℓ and ml	ℓ and ml to ℓ

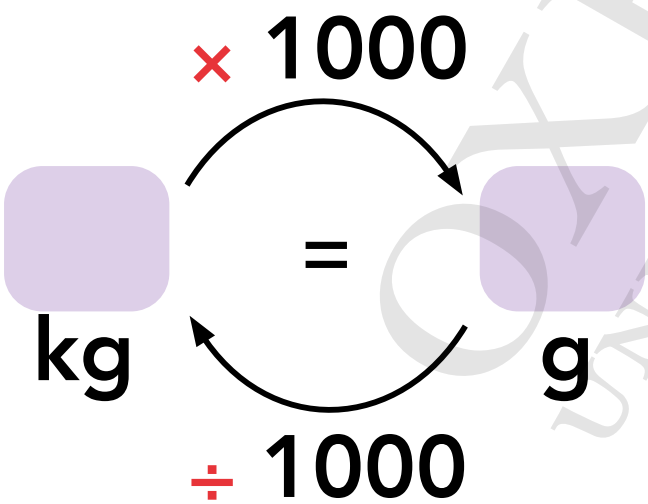
* Note to teacher:

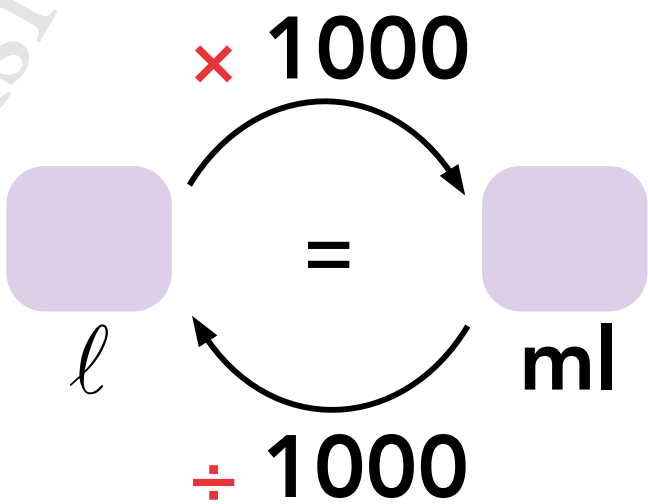
- *Use these cards for 'Activity Time' (Textbook 5 P186).*

Conversion of Unit Cards

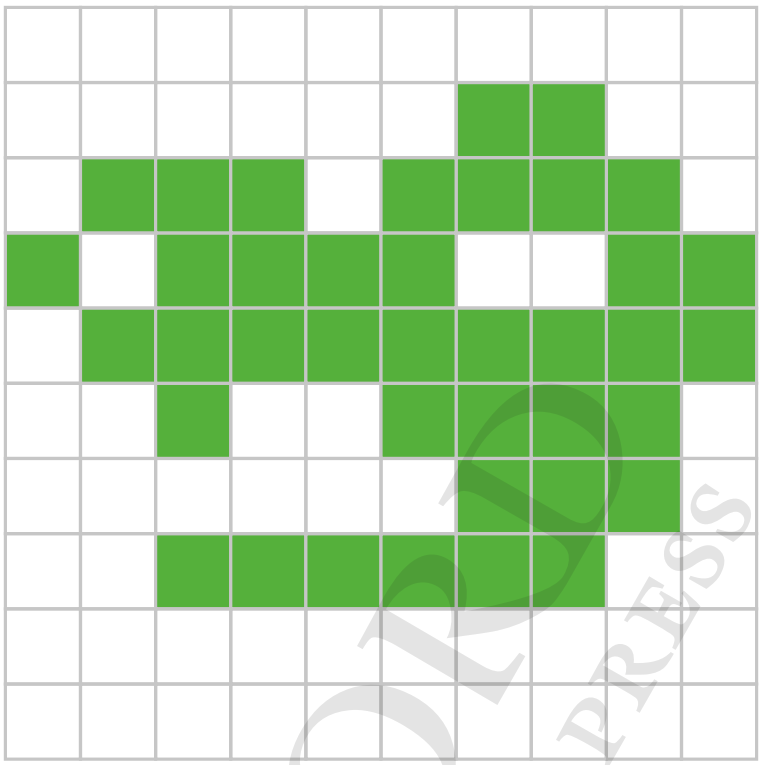


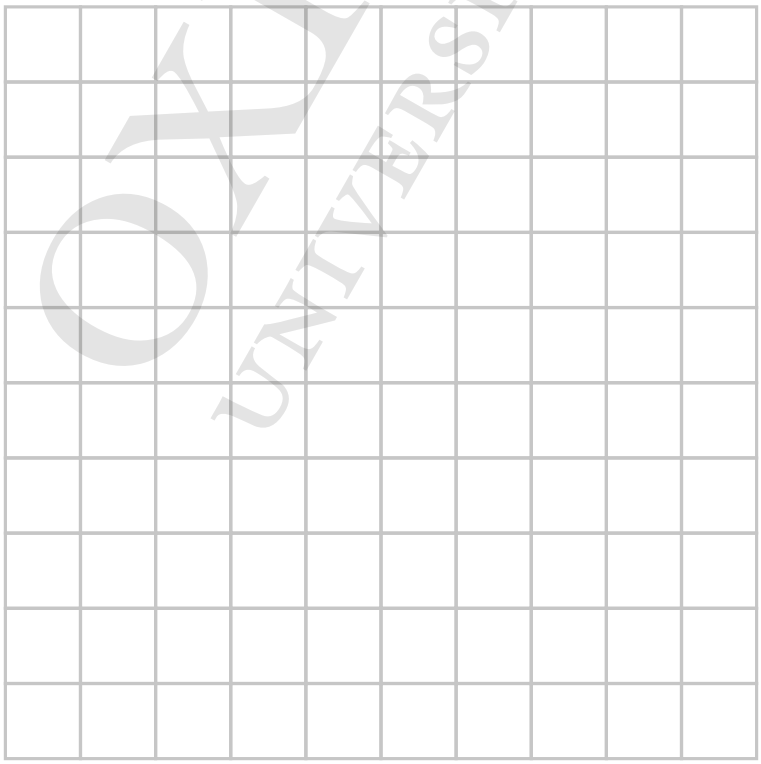




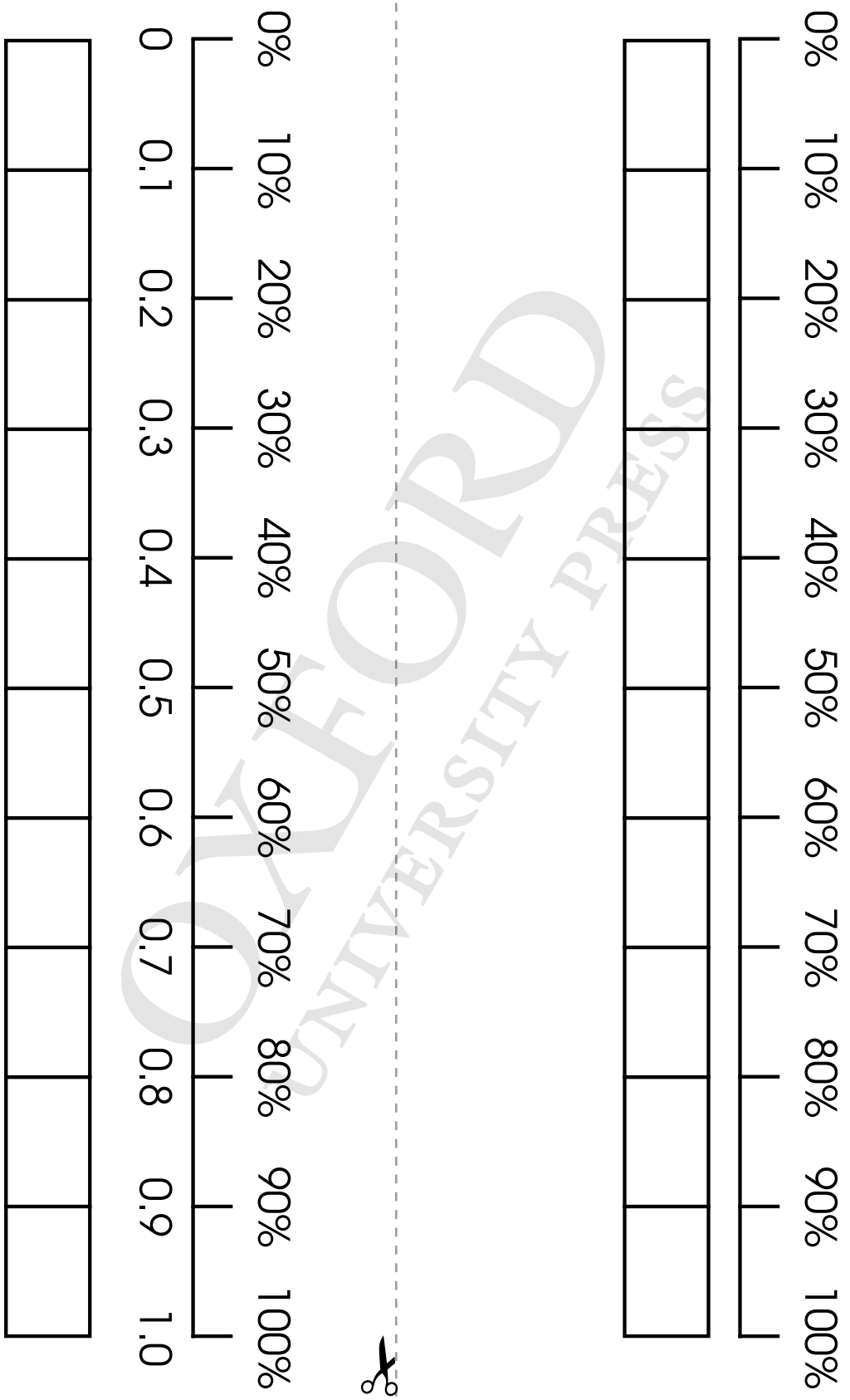


10 × 10 Square Grid Papers





Percentage Bars



Fraction Cards

$\frac{11}{20}$			

* Note to teacher:

- *Use these fraction cards for 'Activity Time' (Textbook 5 P200). Fill in as many blank cards with any fraction as desired.*

Decimal Cards

0.55			

* Note to teacher:

- *Use these decimal cards for 'Activity Time' (Textbook 5 P200). Fill in as many blank cards with any decimal as desired.*

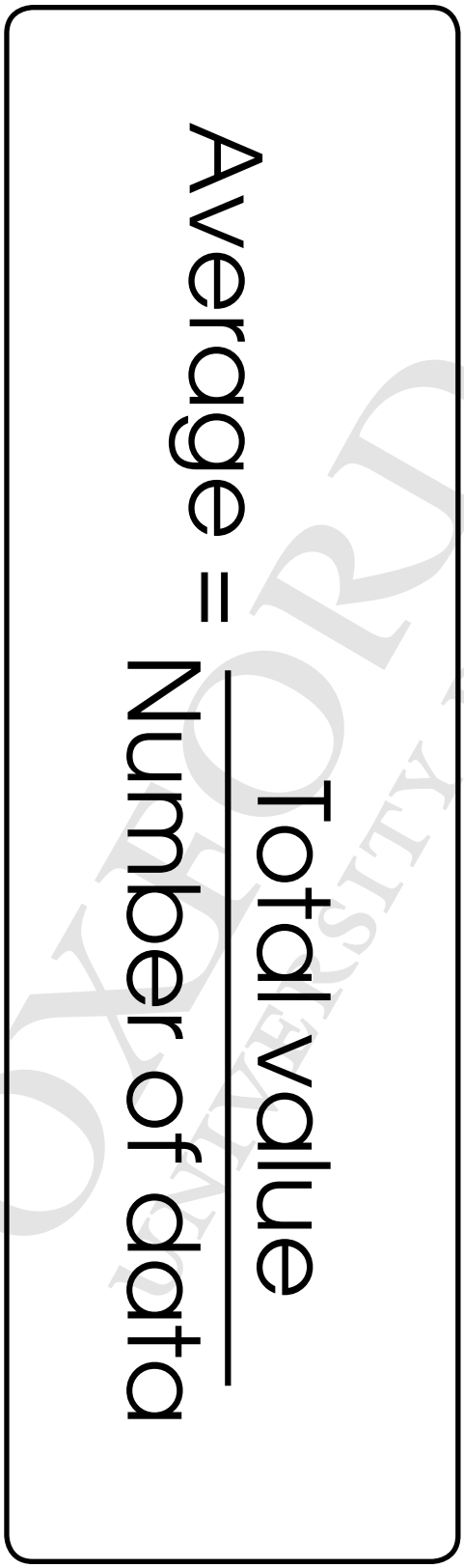
Percentage Cards

55%			

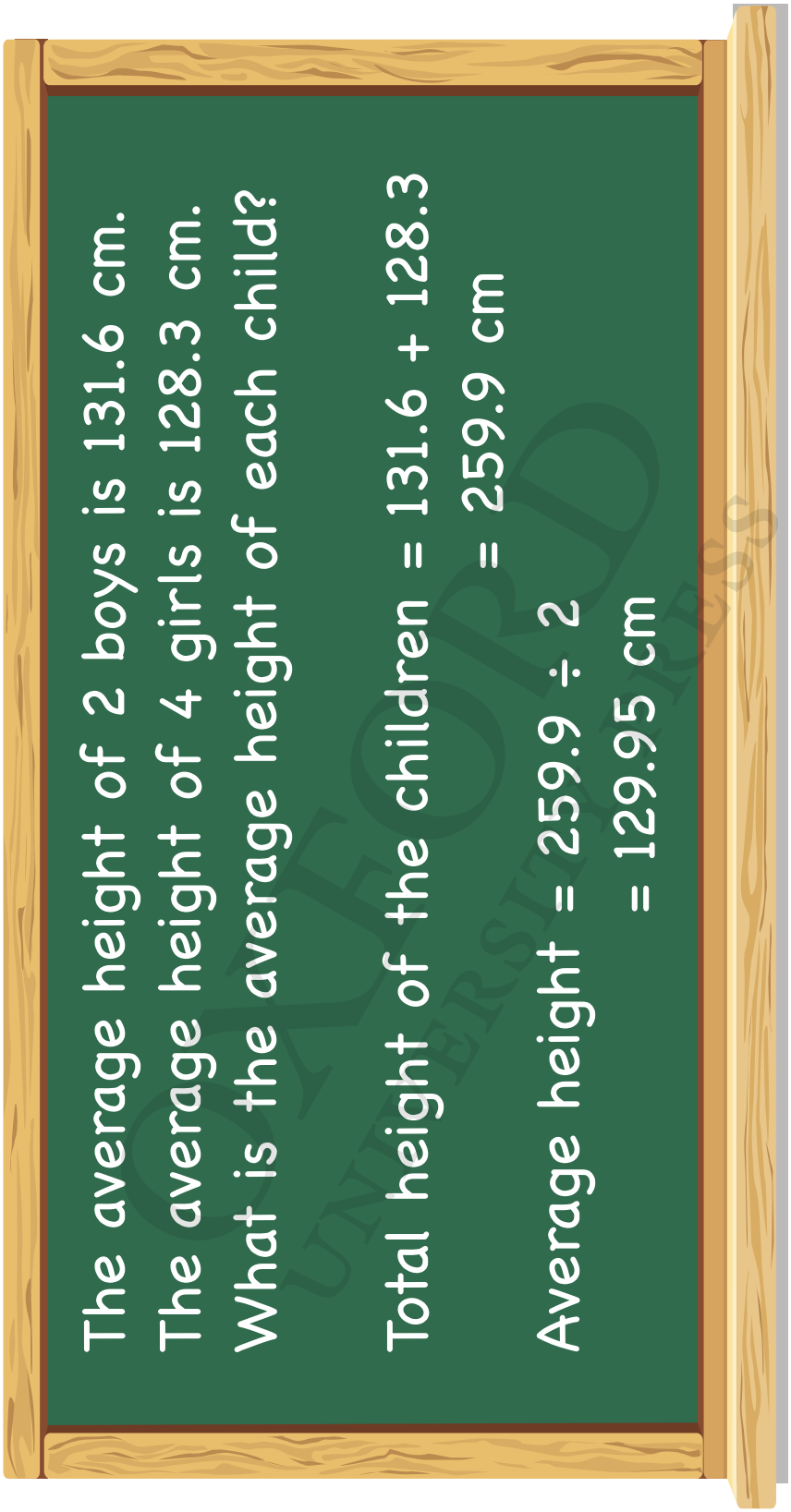
* Note to teacher:

- *Use these percentage cards for 'Activity Time' (Textbook 5 P200). Fill in as many blank cards with any percentage as desired.*

Formula for Average Card



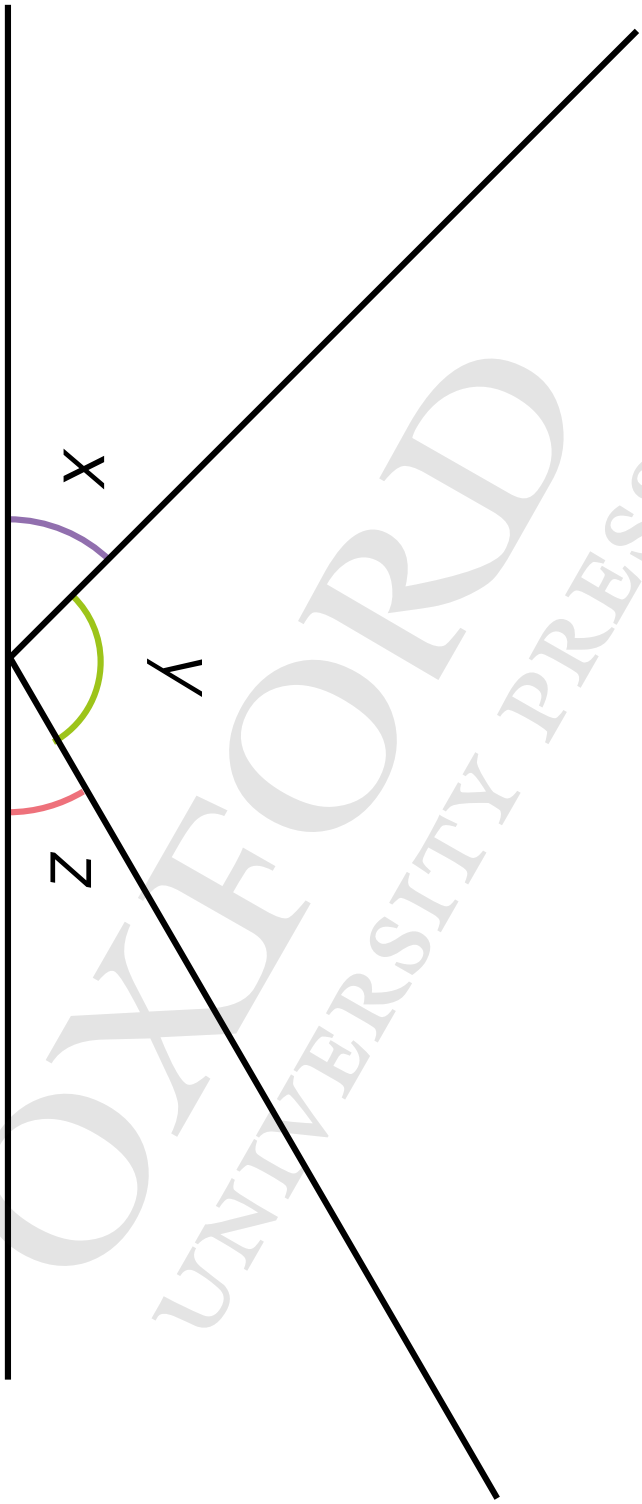
Solving a Word Problem Card



* Note to teacher:

- *Use this word problem for 'Maths Journal' (Textbook 5 P223).*

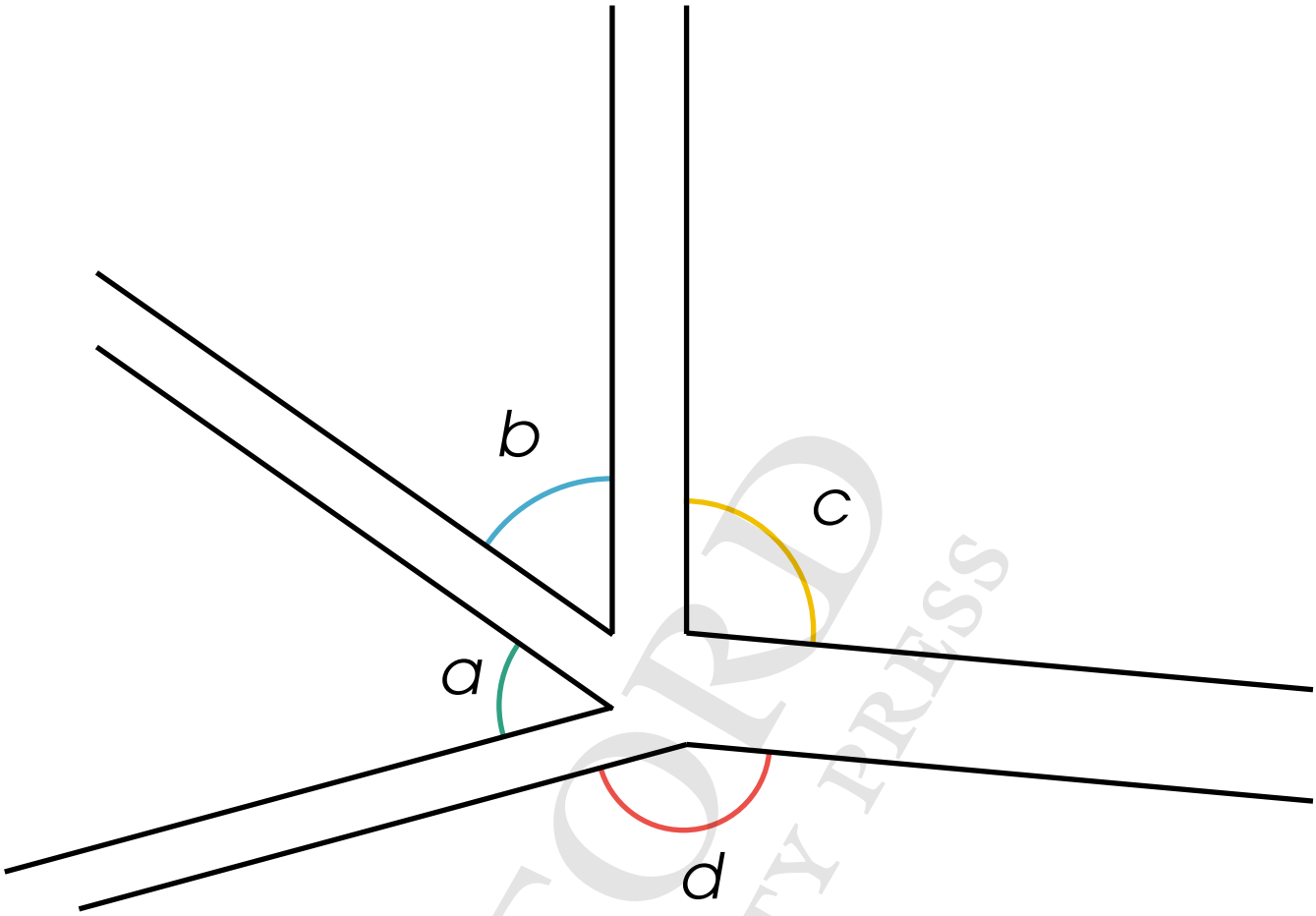
Angles on a Straight Line



* Note to teacher:

- Use this diagram for Let's Learn 3 (Textbook 5 P240).

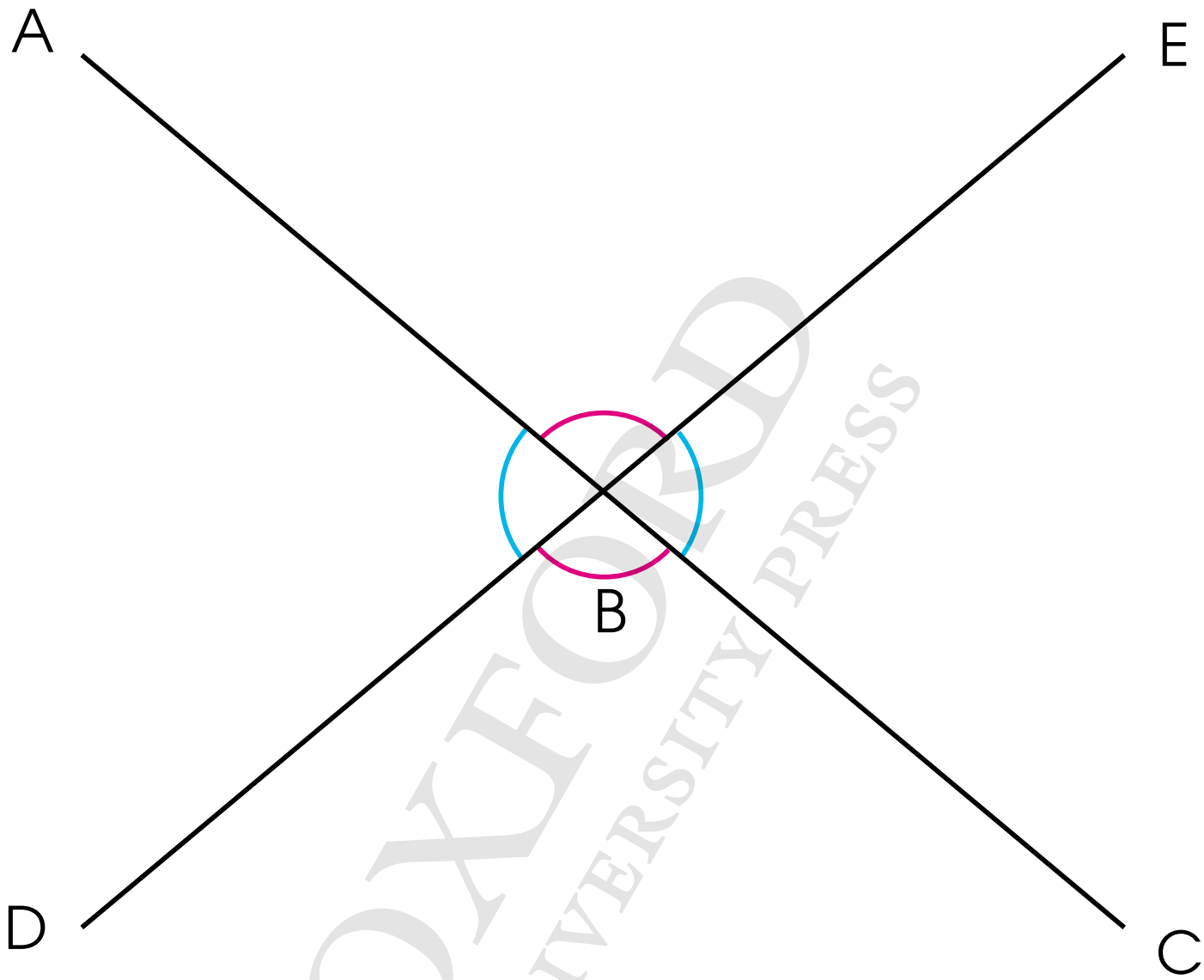
Angles at a Point



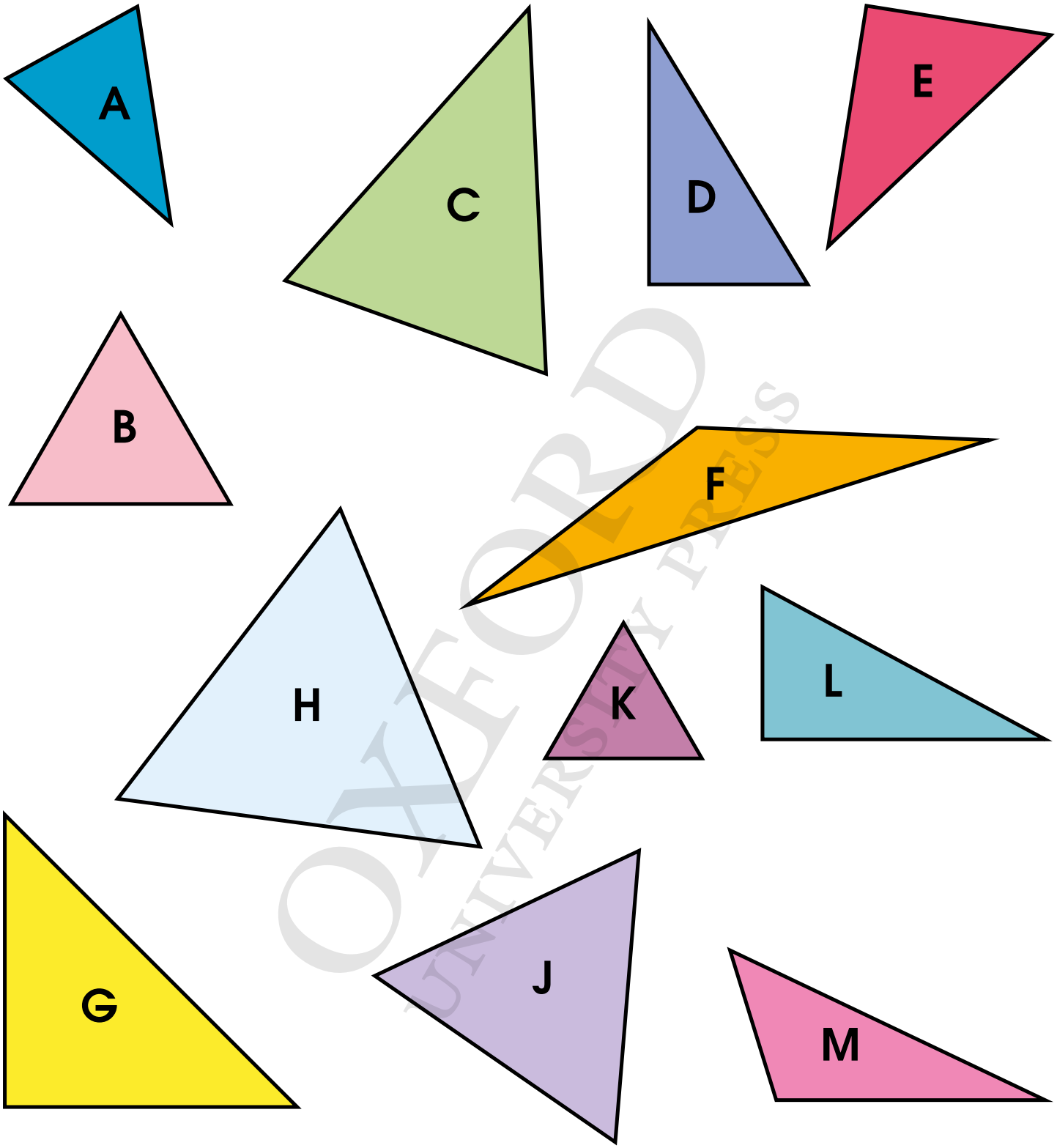
* Note to teacher:

- *Have pupils cut out the angles and paste them such that the angles meet at a point, denoted by the dot.*

Vertically Opposite Angles



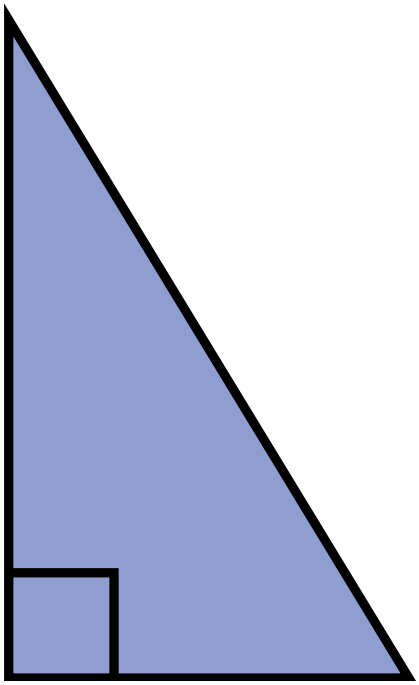
Triangles

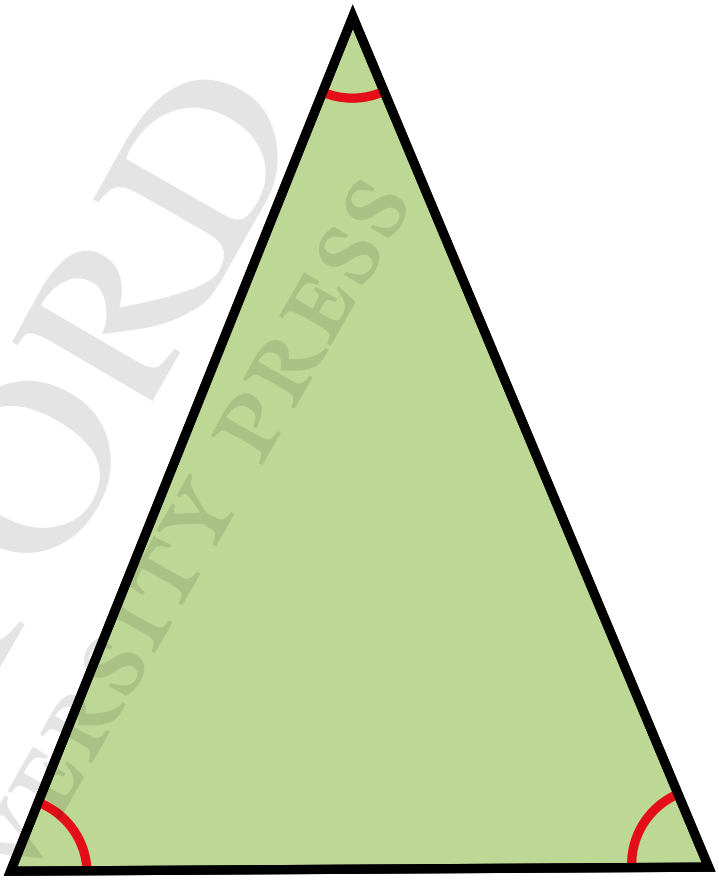


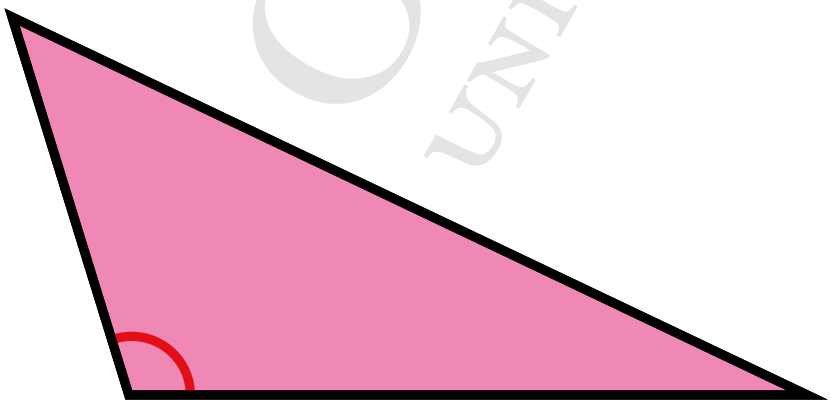
* Note to teacher:

- Cut out and laminate these triangles.

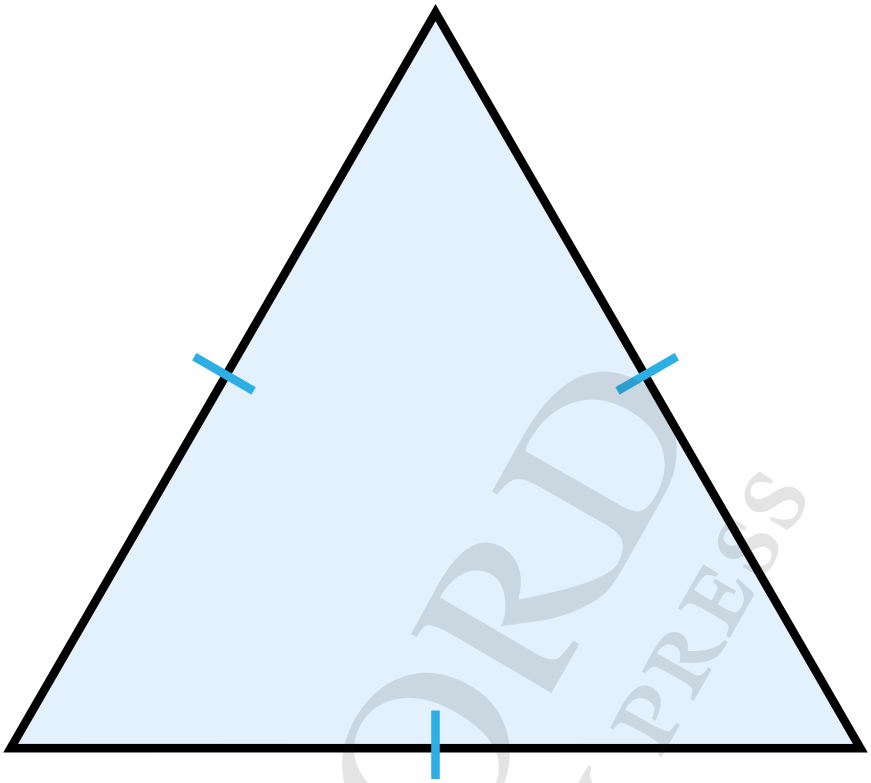
Right-Angled, Acute-Angled, Obtuse-Angled Triangles

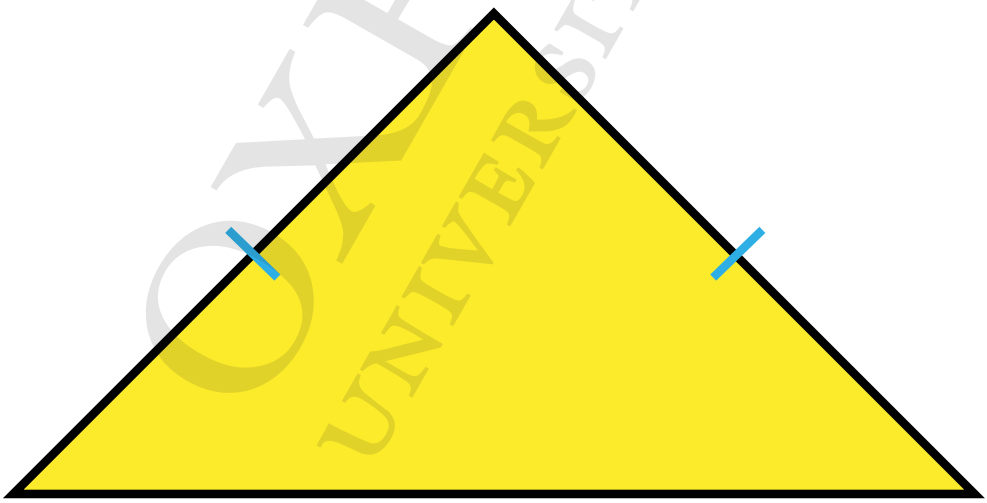




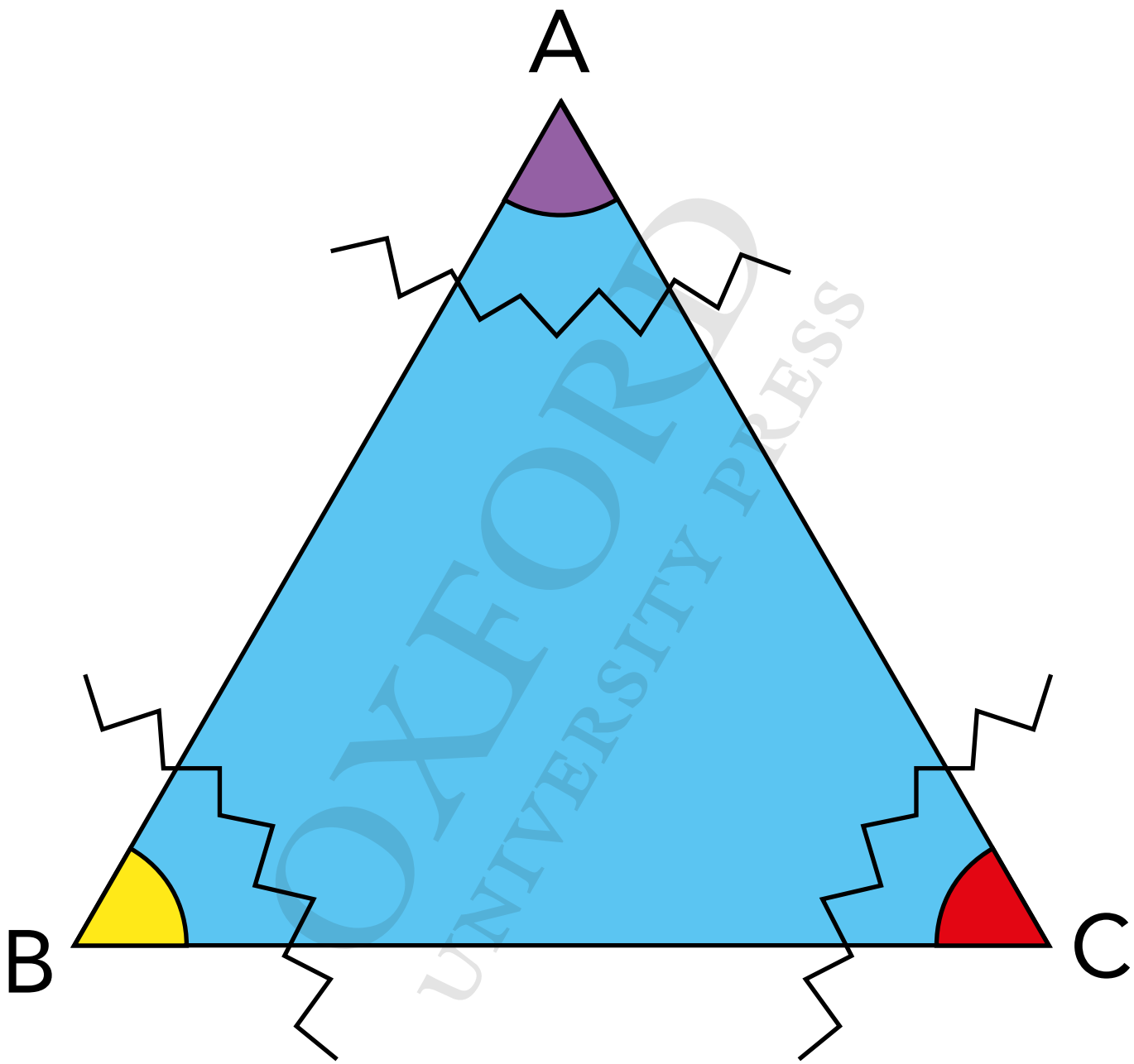


Equilateral and Isosceles Triangles





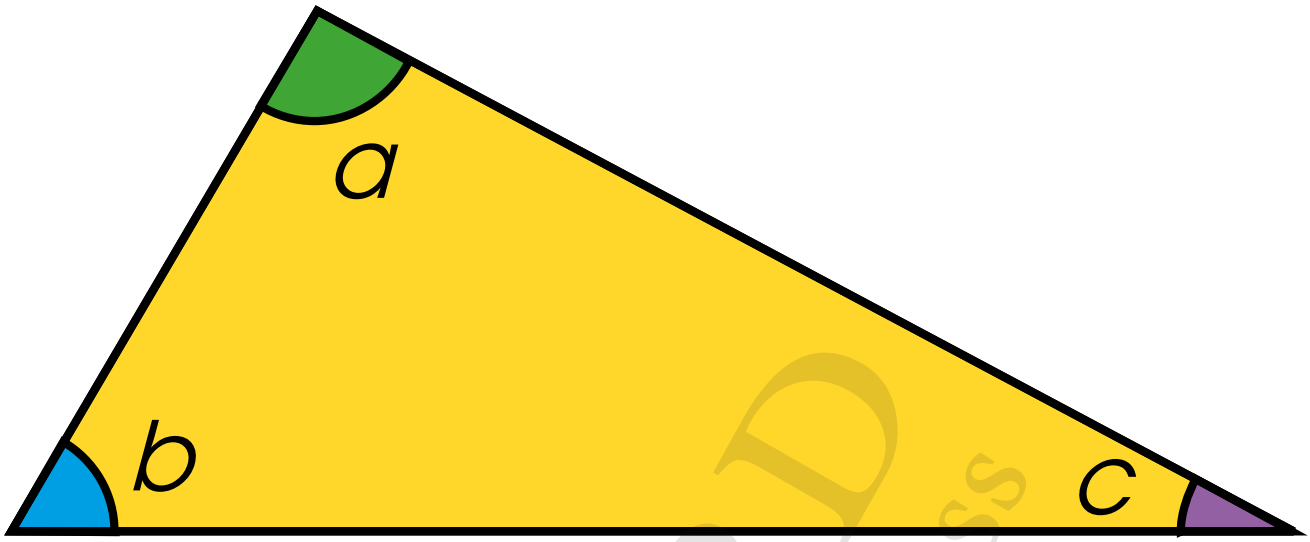
Triangle (Sum of Angles in a Triangle)

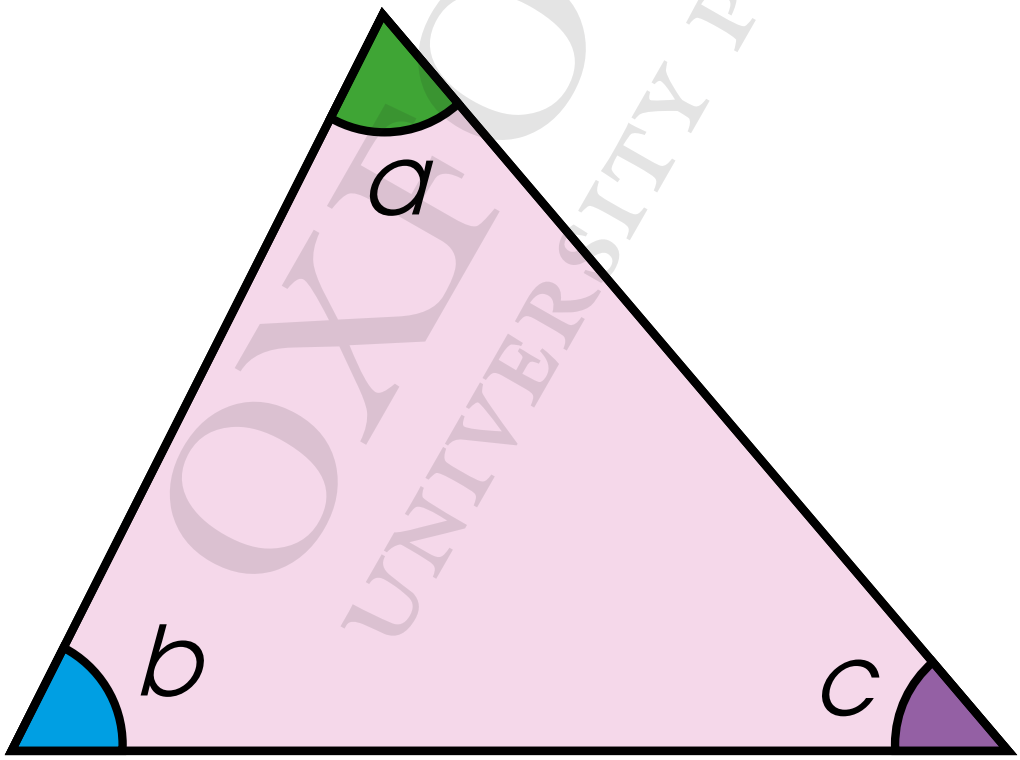


* Note to teacher:

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

Triangles (Sum of Angles in a Triangle)

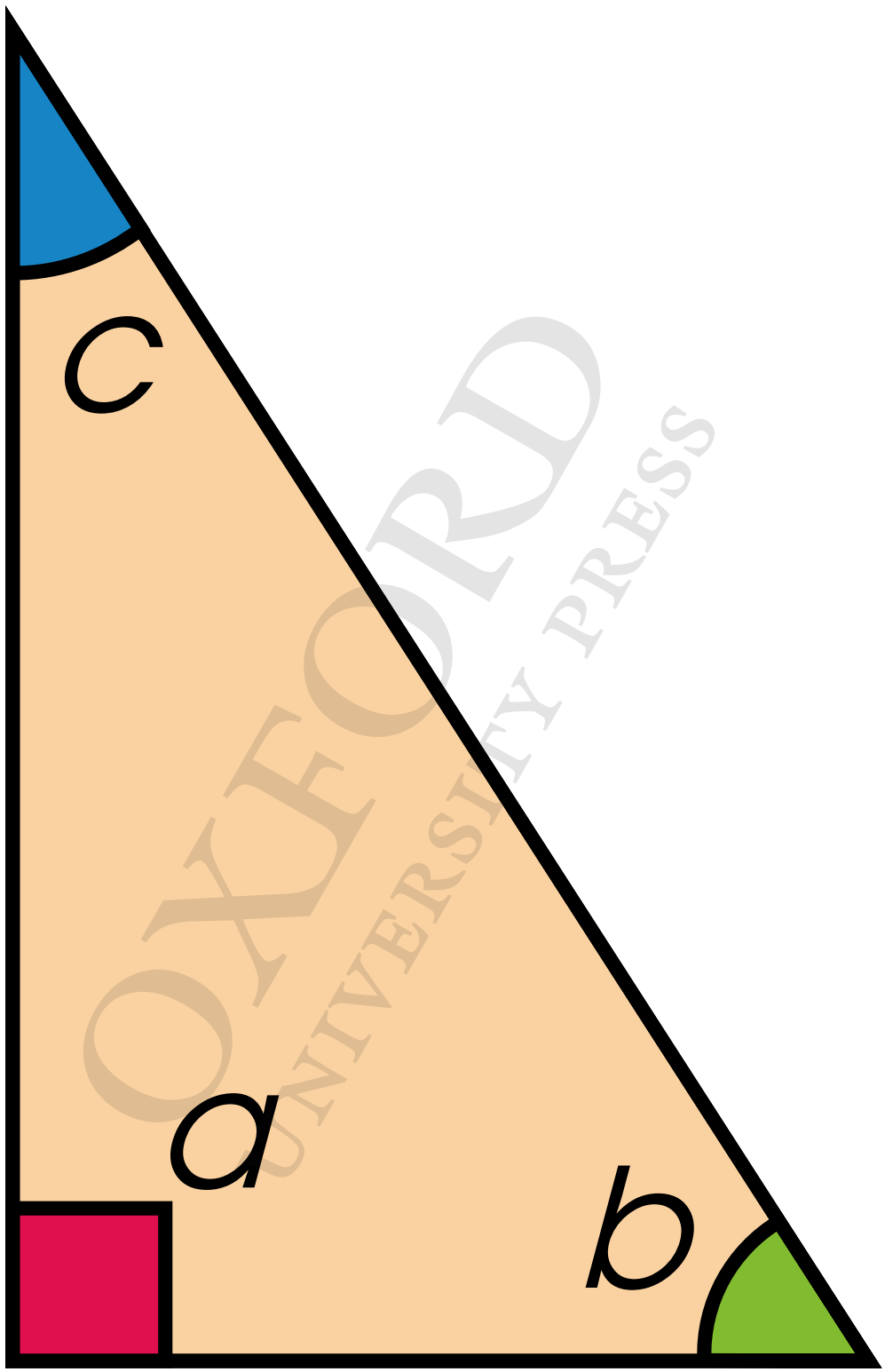




* Note to teacher:

- *Use these triangles for Let's Learn 1 (Textbook 5 P264).*

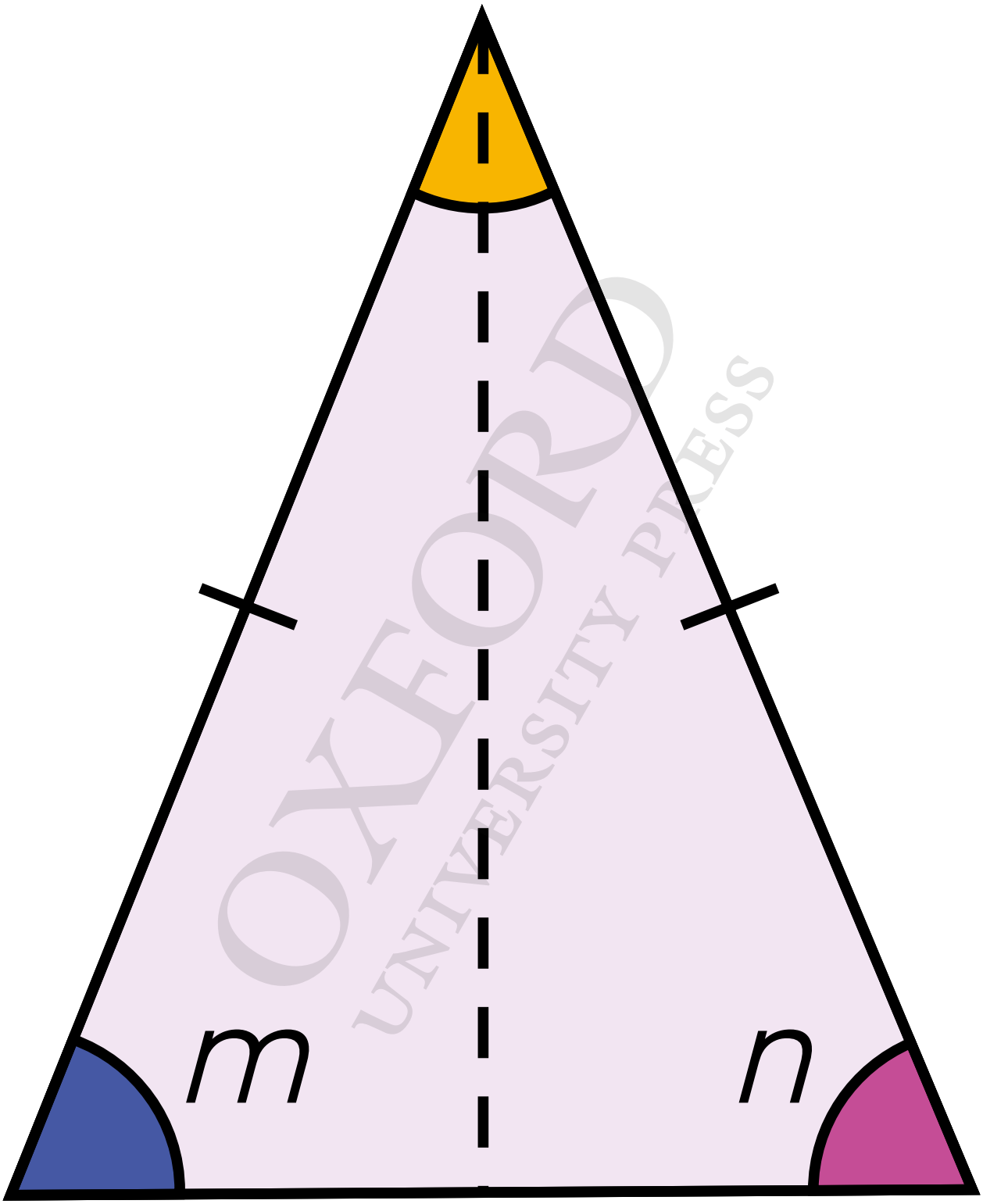
Right-Angled Triangle



* Note to teacher:

- Use this triangle for Let's Learn 5 (Textbook 5 P266).

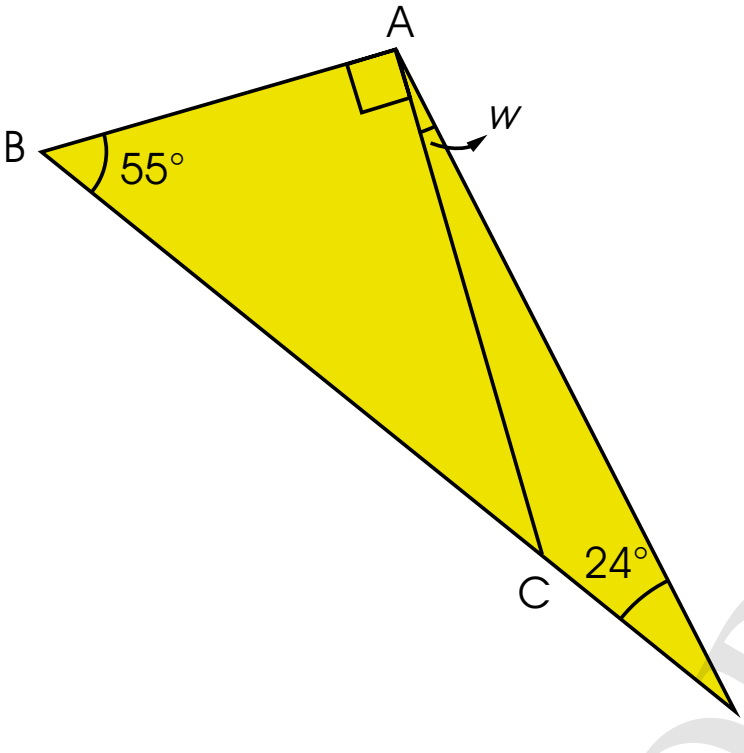
Isosceles Triangle

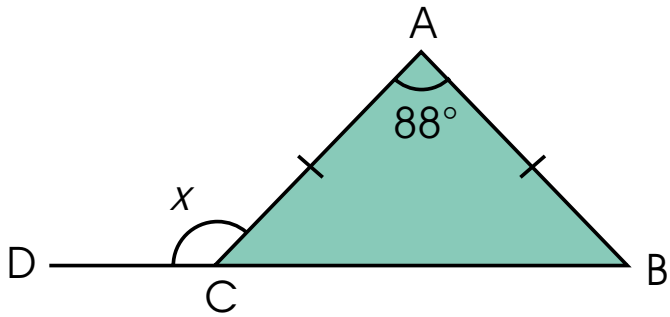


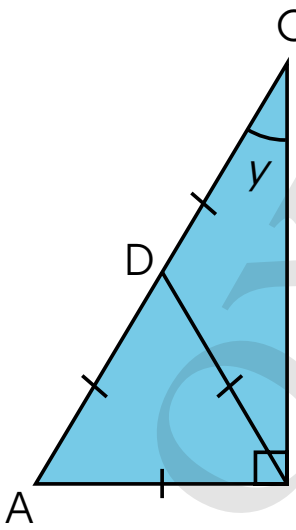
* Note to teacher:

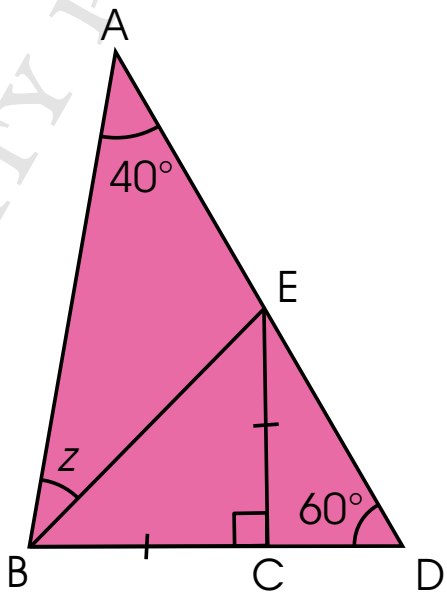
- Use this triangle for Let's Learn 8 (Textbook 5 P267).

Triangles





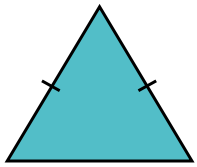




* Note to teacher:

- *Use these triangles for 'Activity Time' (Textbook 5 P274).*

Table

Clue	Drawing	Name of shape
Two sides are equal.		Isosceles triangle
All the sides are not equal.		
All angles are equal.		
There is one right angle.		
There are two right angles.		
There are two acute angles.		
There are two obtuse angles.		

* Note to teacher:

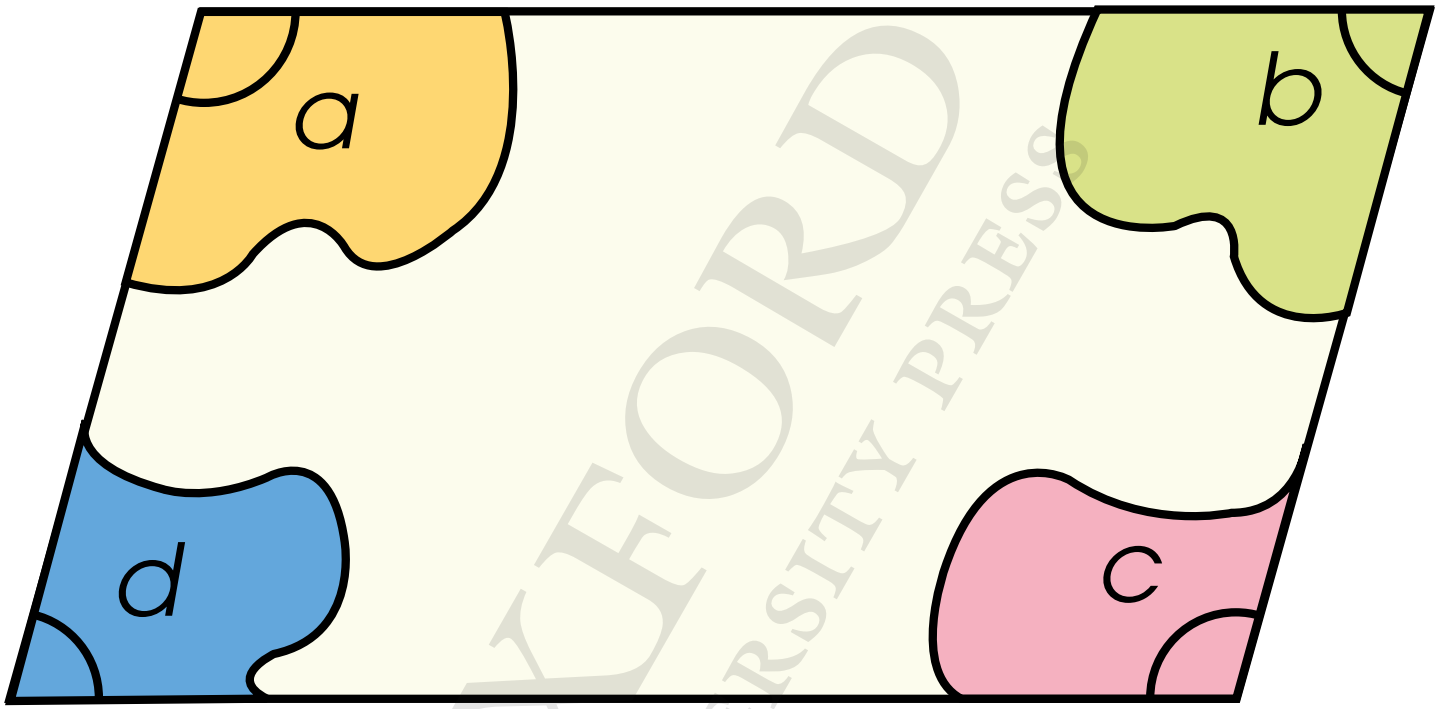
- *Use this table for 'Maths Journal' (Textbook 5 P282).*

Parallelogram

* Note to teacher:

- Use this parallelogram for Let's Learn 2(a) (Textbook 5 P284).

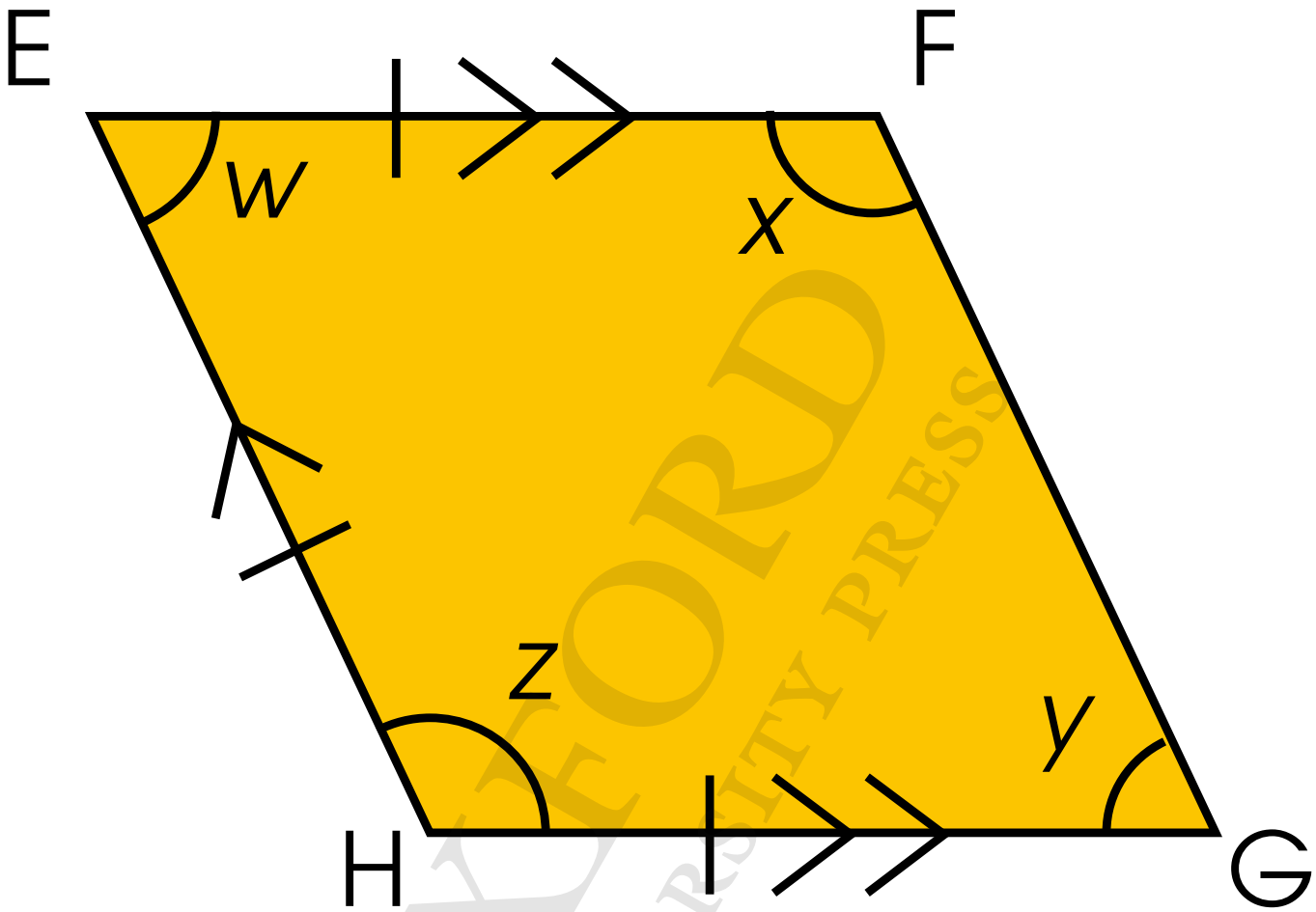
Parallelogram



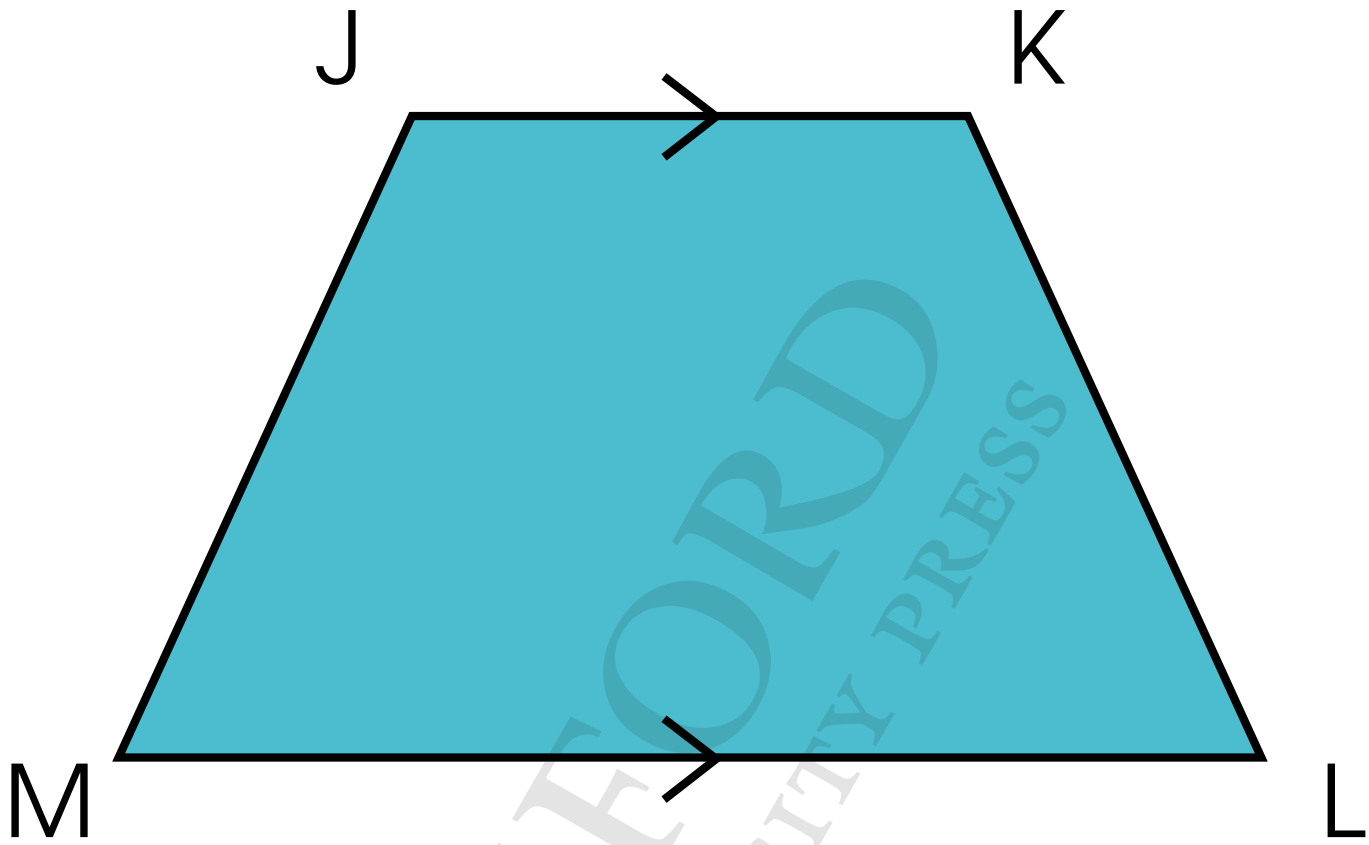
* Note to teacher:

- *Use this parallelogram for Let's Learn 2(b) (Textbook 5 P285).*

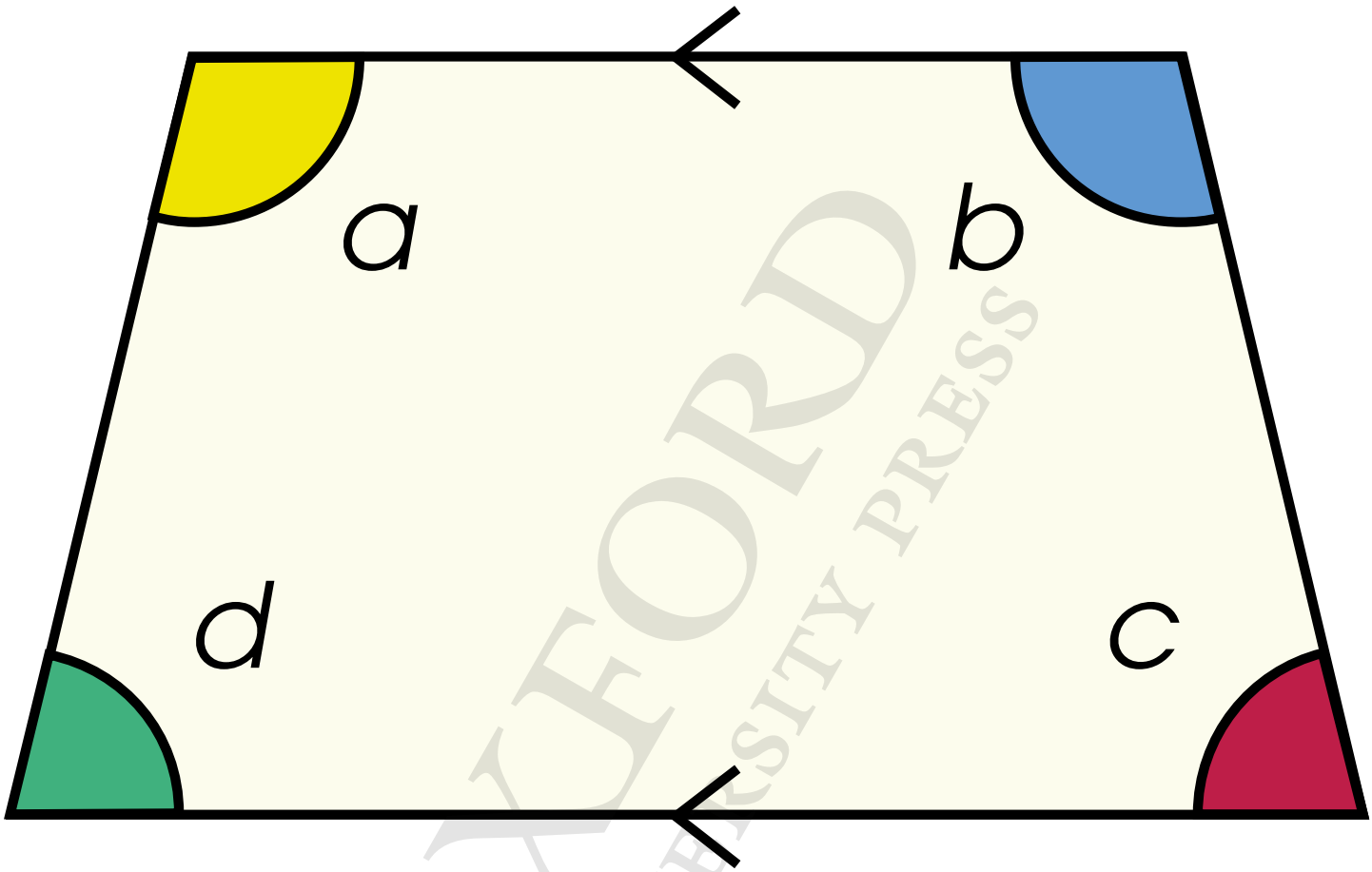
Rhombus



Trapezium



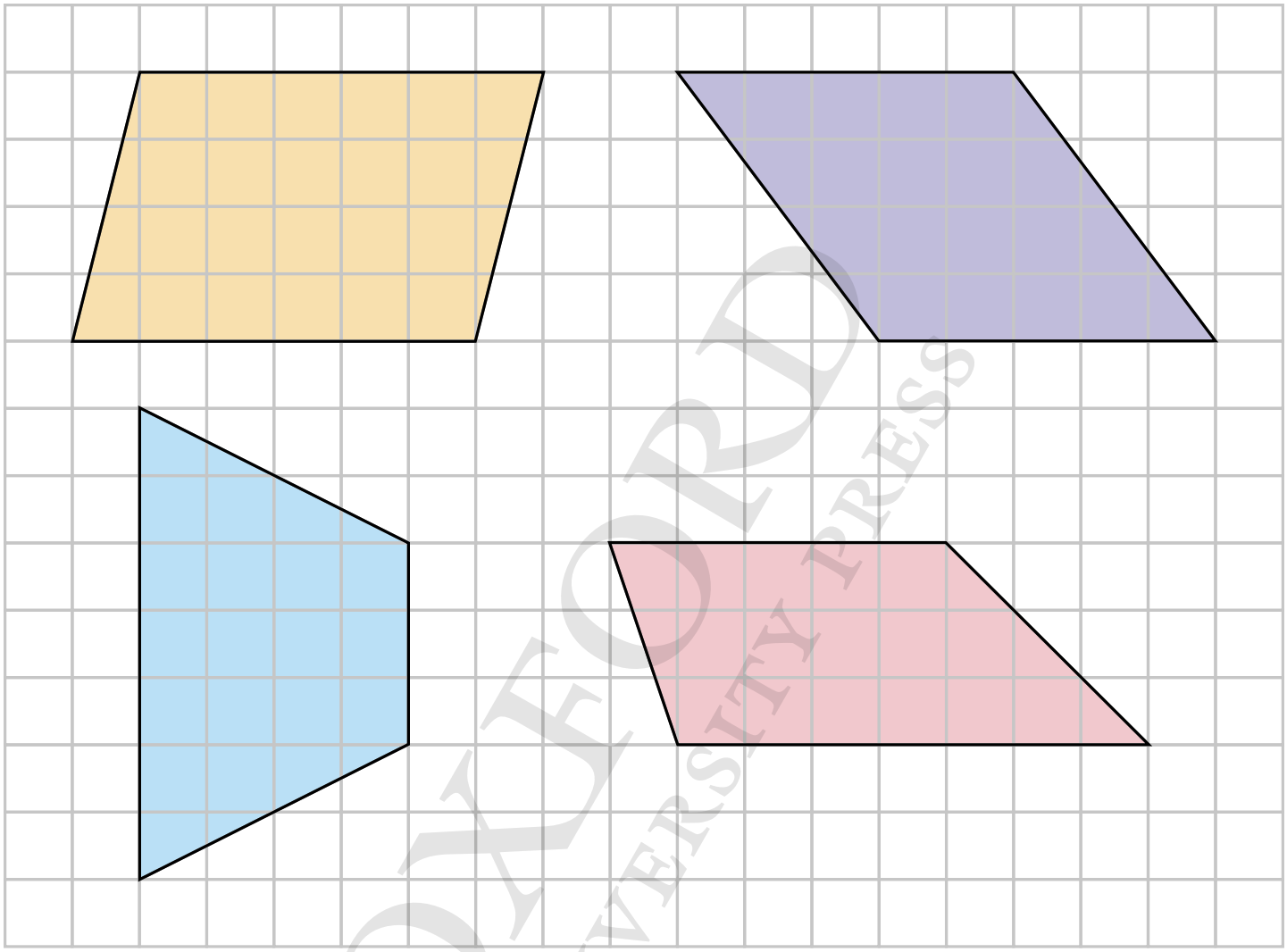
Trapezium



* Note to teacher:

- Use this trapezium for Let's Learn 10 (Textbook 5 P290).

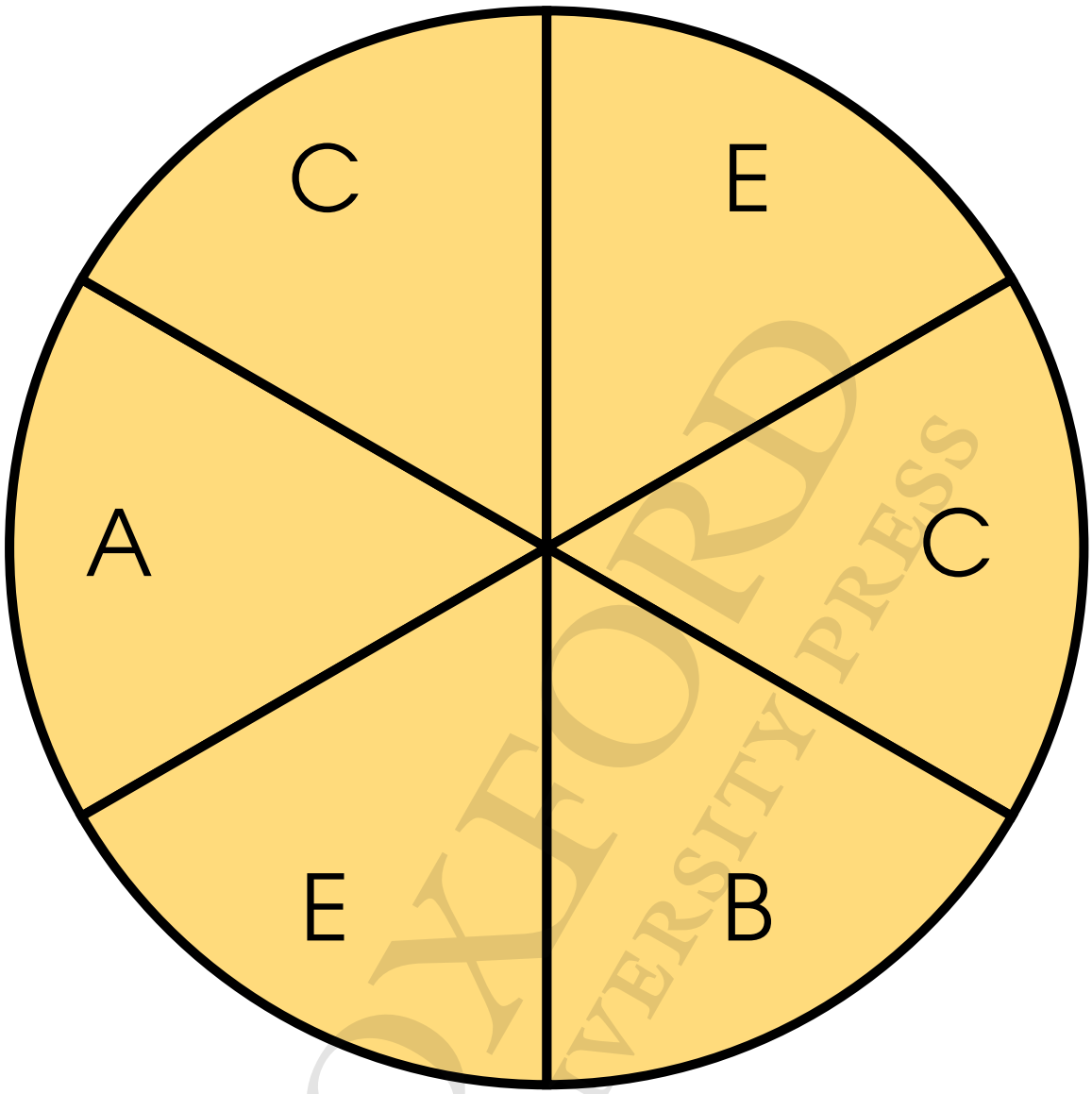
Figures on Square Grid

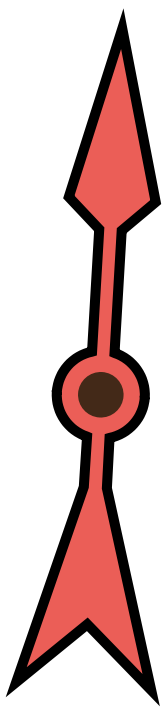


* Note to teacher:

- *Use these figures for 'Activity Time' (Textbook 5 P292).*

Spinner

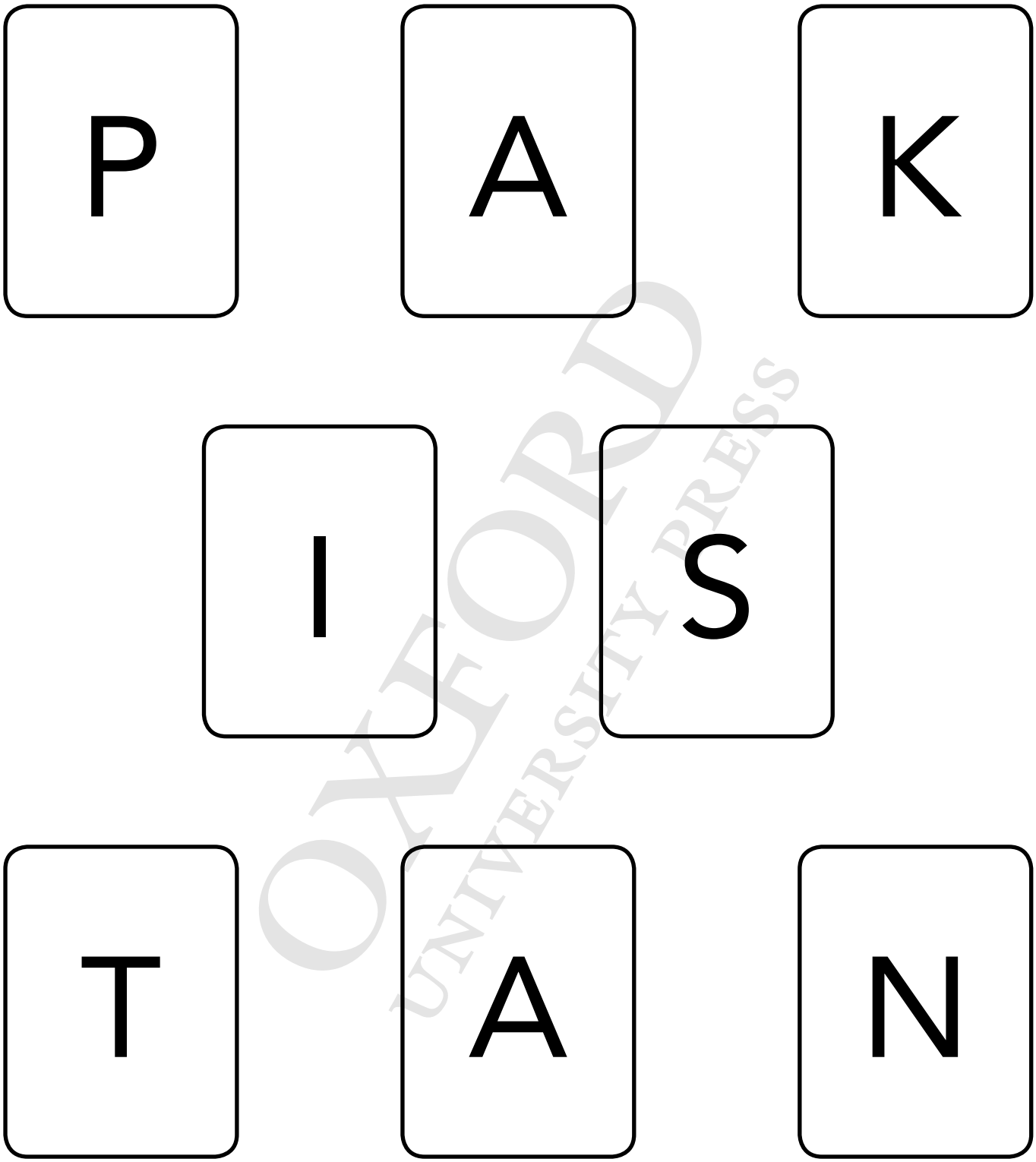




* Note to teacher:

- Cut out the spinner templates. Punch a hole in the centre and insert a thumbtack through the hole. Attach the red cut-out (or any other material that can spin) to the thumbtack.

Alphabet Cards



* Note to teacher:

- *Use these alphabet cards for 'Maths Journal' (Textbook 5 P307).*