2D SHAPES

A PLANE GEOMETRY

A.1 FINDING THE SIDES

Ex 1: How many sides does this shape have?



Ex 2: How many sides does this shape have?







Ex 4: How many sides does this shape have?



Ex 5: How many sides does this shape have?







A.2 FINDING THE VERTICES

Ex 7: How many vertices does this shape have?

vertices





Ex 9: How many vertices does this shape have?



Ex 10: How many vertices does this shape have?



Ex 11: How many vertices does this shape have?







B CIRCLES

B.1 FINDING DIAMETERS

Ex 13: What is the radius and what is the diameter of this circle?









Ex 15: A pizza is a circle with a radius of 15 cm. What is its diameter?





Ex 16: The Earth is a sphere with a radius of 6,000 km. What is its diameter?



Ex 20: The Earth is a circle with a diameter of 12,000 km. What is its radius?



$$Radius =$$
 km

B.2 FINDING RADII

Ex 17: What is the radius and what is the diameter of this circle?



Ex 18: The wheel of a child's bicycle is a circle with a diameter of 30 cm. What is its radius?



Radius = cm

B.3 CONSTRUCTING CIRCLE WITH A RULER AND COMPASS

Ex 21: Construct a circle with a radius of 2 cm at center O, using a compass.



Ex 22: Construct a circle with a radius of 3 cm at center O, using a compass.

Ex 19: A pizza is a circle with a diameter of 30 cm. What is its radius?



	Pick the correct answer: Pick the correct answer: Ves No MCQ 26: Is this figure a polygon?
Ex 23: Construct a circle with a radius of 2.5 cm at center O .	
using a compass.	Pick the correct answer:
	\Box No
	MCO 27: Is this figure a polygon?
	NICQ 21. Is this figure a polygon:
	Pick the correct answer:
	\Box Yes
	□ No
	MCQ 28: Is this figure a polygon?
C POLYGONS	
C.1 IDENTIFYING POLYGONS	Pick the correct answer:
MCQ 24: Is this figure a polygon?	\Box Yes
1	□ No
	MCQ 29: Is this figure a polygon?
Pick the correct answer:	
\Box Yes	
□ No	Pick the correct answer:
	⊔ Yes
MCQ 25: Is this figure a polygon?	⊔ No

MCQ 30: Is this figure a polygon?



Pick the correct answer:

- \Box Yes
- \Box No

C.2 NAMING POLYGONS

MCQ 31: What is the name of this polygon?



Pick the correct answer:

- \Box Triangle
- \Box Quadrilateral
- \Box Pentagon
- \Box Hexagon





Pick the correct answer:

- \Box Triangle
- $\hfill\square$ Quadrilateral
- \Box Pentagon
- \Box Hexagon

MCQ 33: What is the name of this polygon?



Pick the correct answer:

- \Box Triangle
- \Box Quadrilateral

- \Box Pentagon
- $\Box\,$ Hexagon

MCQ 34: What is the name of this polygon?



Pick the correct answer:

- \Box Triangle
- \Box Quadrilateral
- \Box Pentagon
- \Box Hexagon

MCQ 35: What is the name of this polygon?



Pick the correct answer:

- \Box Triangle
- \Box Quadrilateral
- \Box Pentagon
- \Box Hexagon

C.3 DRAWING POLYGONS

Ex 36: Draw a triangle.

Ex 37: Draw a quadrilateral.





Choose one answer:

- \Box Scalene
- \Box Isosceles
- \Box Equilateral
- \Box Right-angle







Choose one answer:

 \Box Scalene

 \Box Isosceles

- \Box Equilateral
- \Box Right-angle





Choose one or two answers:

 \Box Scalene

- \Box Isosceles
- \Box Equilateral
- $\hfill\square$ Right-angle

D.2 CONSTRUCTING TRIANGLES WITH A RULER AND COMPASS

Ex 48: Construct a triangle ABC with AB = 3 cm, AC = 6 cm, and BC = 5 cm, leaving the construction marks visible, using a ruler and a compass.

Ex 49: Construct a triangle ABC with AB = 4 cm, AC = 3 cm, and BC = 5 cm, leaving the construction marks visible, using a ruler and a compass.

Ex 50: Construct an equilateral triangle ABC with AB = 4 cm, leaving the construction marks visible, using a ruler and a compass.



 \Box True

 \Box False

 MCQ 55: A square is a special type of rectangle.

 Choose one answer:

 \Box True

 \Box False

 MCQ 56: A rectangle is a special type of square.

 Choose one answer:

 \Box True

 \Box False

 MCQ 56: A rectangle is a special type of square.

 Choose one answer:

 \Box True

 \Box False

 MCQ 57: A rectangle is a special type of parallelogram.

 Choose one answer:

 \Box True

 \Box False

 MCQ 57: A rectangle is a special type of parallelogram.

 Choose one answer:

 \Box True

 \Box False

Ex 51: Construct an isosceles triangle ABC with AB = 4 cm, AC = 3 cm, and BC = 3 cm, leaving the construction marks visible, using a ruler and a compass.

E QUADRILATERALS

E.1 DETERMINING PROPERTIES QUADRILATERALS

MCQ 52: A square has four right angles.

Choose one answer:

 \Box True

 \Box False

MCQ 53: The opposite sides of a rhombus are parallel. Choose one answer:

- \Box True
- \Box False

MCQ 54: The adjacent sides of a rectangle are parallel. Choose one answer:

(*<u>*</u>)

OF