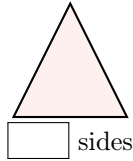


2D SHAPES

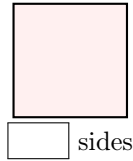
A PLANE GEOMETRY

A.1 FINDING THE SIDES

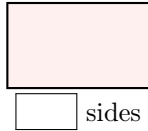
Ex 1: How many sides does this shape have?



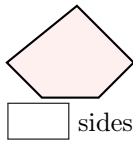
Ex 2: How many sides does this shape have?



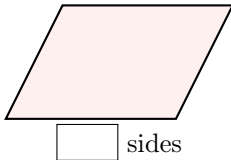
Ex 3: How many sides does this shape have?



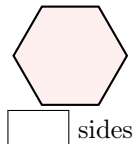
Ex 4: How many sides does this shape have?



Ex 5: How many sides does this shape have?

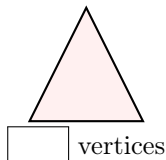


Ex 6: How many sides does this shape have?

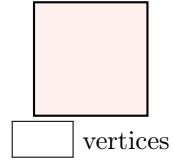


A.2 FINDING THE VERTICES

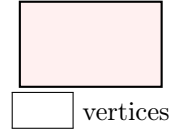
Ex 7: How many vertices does this shape have?



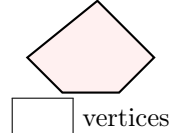
Ex 8: How many vertices does this shape have?



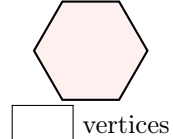
Ex 9: How many vertices does this shape have?



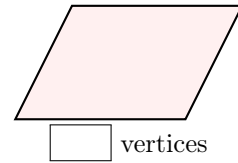
Ex 10: How many vertices does this shape have?



Ex 11: How many vertices does this shape have?



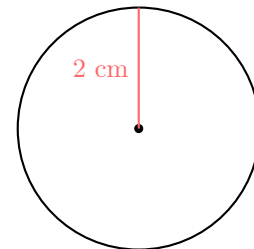
Ex 12: How many vertices does this shape have?



B CIRCLES

B.1 FINDING DIAMETERS

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



Radius = cm
Diameter = cm

Ex 14: The wheel of a child's bicycle is a circle with a radius of 15 cm. What is its diameter?




Diameter = cm

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



Diameter = cm

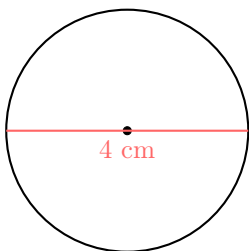
Ex 16:  The Earth is a sphere with a radius of 6 000 km. What is its diameter?



Diameter = km

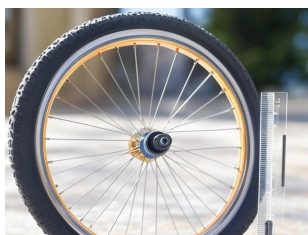
B.2 FINDING RADII

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



Radius = cm
Diameter = cm

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




Radius = cm

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



Radius = cm

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



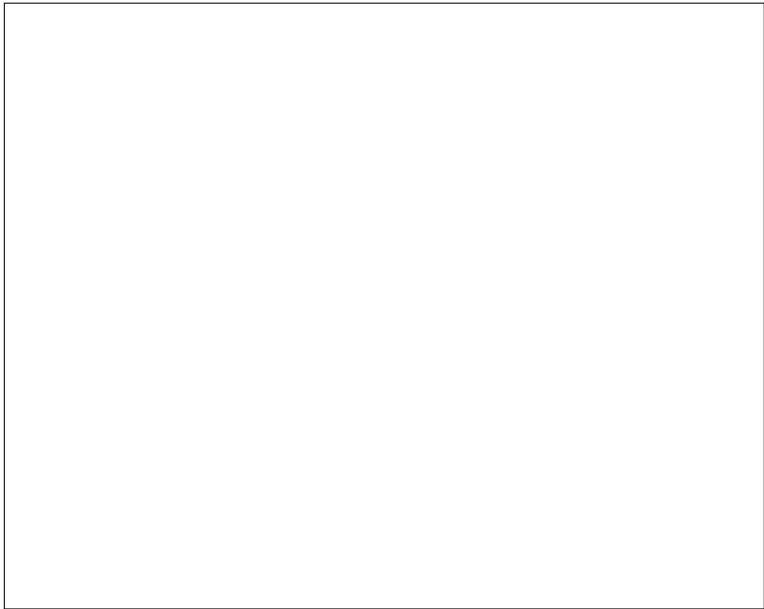
Radius = km

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.



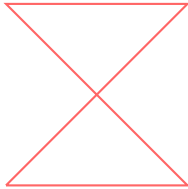
Ex 22: Construct a circle with a radius of 3 cm at center O , using a compass.



Pick the correct answer:

- ☐ Yes
- ☐ No

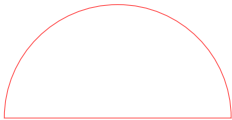
MCQ 26: Is this figure a polygon?



Pick the correct answer:

- ☐ Yes
- ☐ No

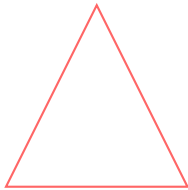
MCQ 27: Is this figure a polygon?



Pick the correct answer:

- ☐ Yes
- ☐ No

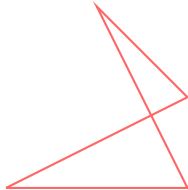
MCQ 28: Is this figure a polygon?



Pick the correct answer:

- ☐ Yes
- ☐ No

MCQ 29: Is this figure a polygon?



Pick the correct answer:

- ☐ Yes
- ☐ No

Ex 23: Construct a circle with a radius of 2.5 cm at center O , using a compass.



C POLYGONS

C.1 IDENTIFYING POLYGONS

MCQ 24: Is this figure a polygon?

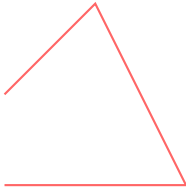


Pick the correct answer:

- ☐ Yes
- ☐ No

MCQ 25: Is this figure a polygon?

MCQ 30: Is this figure a polygon?

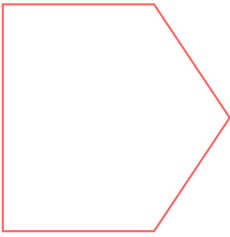


Pick the correct answer:

- ☐ Yes
- ☐ No

C.2 NAMING POLYGONS

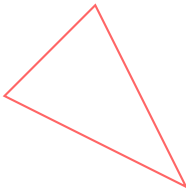
MCQ 31: What is the name of this polygon?



Pick the correct answer:

- ☐ Triangle
- ☐ Quadrilateral
- ☐ Pentagon
- ☐ Hexagon

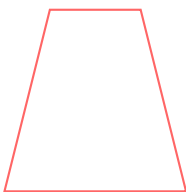
MCQ 32: What is the name of this polygon?



Pick the correct answer:

- ☐ Triangle
- ☐ Quadrilateral
- ☐ Pentagon
- ☐ Hexagon

MCQ 33: What is the name of this polygon?



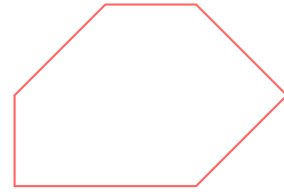
Pick the correct answer:

- ☐ Triangle
- ☐ Quadrilateral

☐ Pentagon

☐ Hexagon

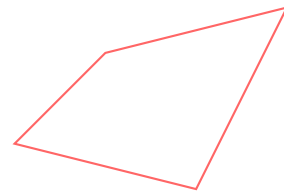
MCQ 34: What is the name of this polygon?



Pick the correct answer:

- ☐ Triangle
- ☐ Quadrilateral
- ☐ Pentagon
- ☐ Hexagon

MCQ 35: What is the name of this polygon?



Pick the correct answer:

- ☐ Triangle
- ☐ Quadrilateral
- ☐ Pentagon
- ☐ Hexagon

C.3 DRAWING POLYGONS

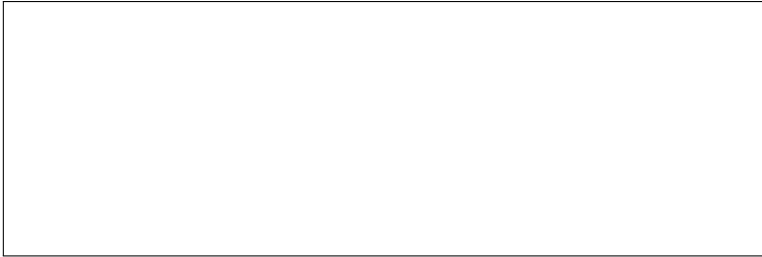
Ex 36: Draw a triangle.



Ex 37: Draw a quadrilateral.



Ex 38: Draw a pentagon.



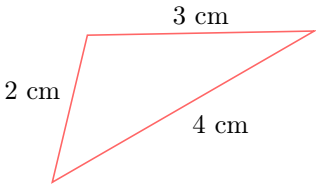
Ex 39: Draw a hexagon.



D TRIANGLES

D.1 CLASSIFYING TRIANGLES BY SIDE LENGTHS

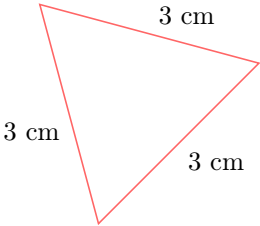
MCQ 40: Classify the triangle:



Choose one answer:

- ☐ Scalene
- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

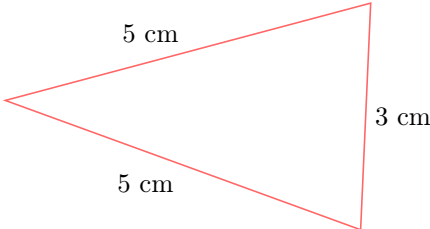
MCQ 41: Classify the triangle:



Choose one answer:

- ☐ Scalene
- ☐ Equilateral
- ☐ Right-angled triangle

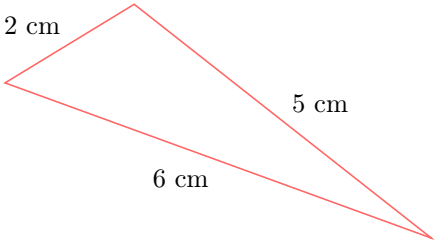
MCQ 42: Classify the triangle:



Choose one answer:

- ☐ Scalene
- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

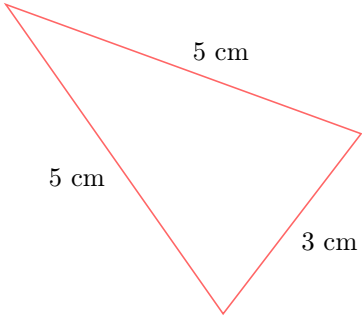
MCQ 43: Classify the triangle:



Choose one answer:

- ☐ Scalene
- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

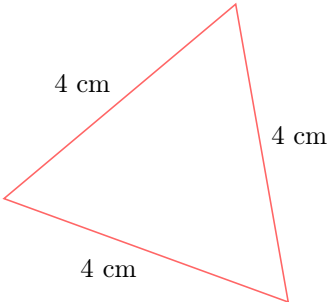
MCQ 44: Classify the triangle:



Choose one answer:

- ☐ Scalene
- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

MCQ 45: Classify the triangle:



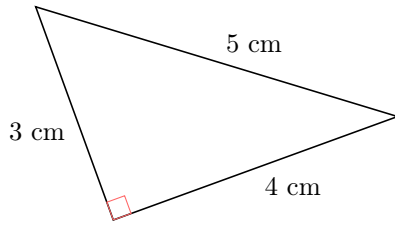
Choose one answer:

- ☐ Scalene
- ☐ Equilateral



☐ Right-angled triangle

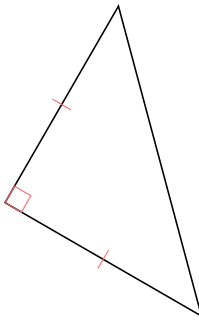
MCQ 46: Classify the triangle:



Choose one answer:

- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

MCQ 47: Classify the triangle:



Choose two answers:

- ☐ Isosceles
- ☐ Equilateral
- ☐ Right-angled triangle

D.2 CONSTRUCTING TRIANGLES WITH A RULER AND COMPASS

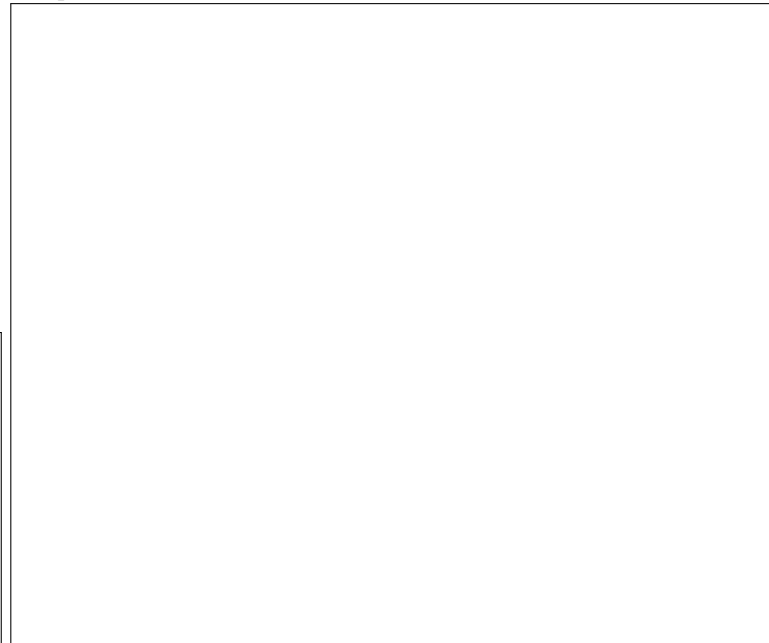
Ex 48: Construct a triangle ABC with $AB = 3$ cm, $AC = 6$ cm, and $BC = 5$ cm, leaving the construction marks visible, using a ruler and a compass.



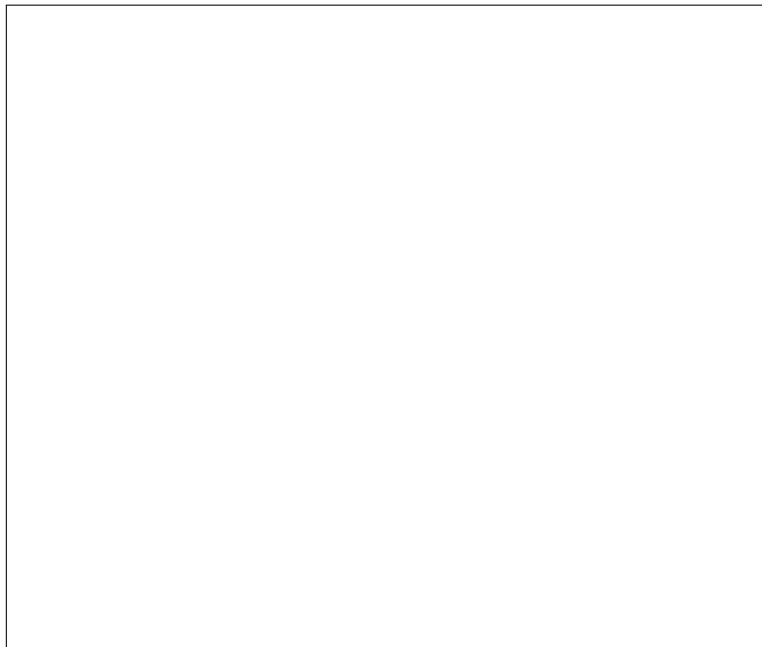
Ex 49: Construct a triangle ABC with $AB = 4$ cm, $AC = 3$ cm, and $BC = 5$ cm, leaving the construction marks visible, using a ruler and a compass.



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



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 OF QUADRILATERALS

MCQ 52: A square has four right angles.

Choose one answer:

- ☐ True
- ☐ False

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

Choose one answer:

- ☐ True
- ☐ False

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

Choose one answer:

- ☐ True
- ☐ False

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

Choose one answer:

- ☐ True
- ☐ False

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

Choose one answer:

- ☐ True
- ☐ False

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

Choose one answer:

- ☐ True
- ☐ False