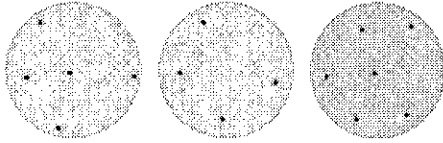


# 5 Classifying Polygons EVALUATED

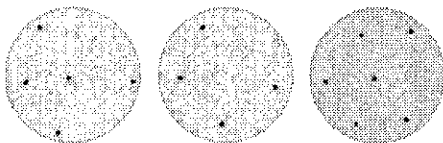


## Skill Builder

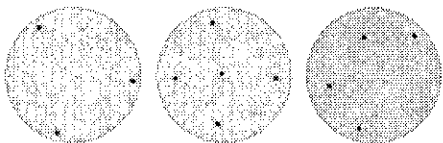
**1** Connect the dots to form polygons.



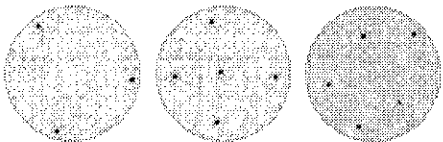
Connect the dots to form non-polygons.



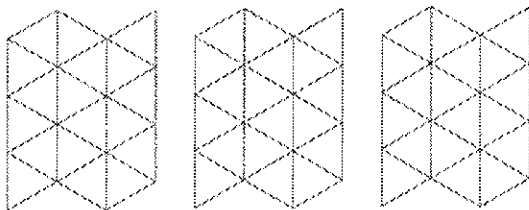
**2** Connect the dots to form polygons.



Connect the dots to form non-polygons.



**3** In each figure below, outline a triangle. The triangles must NOT be the same size. What do they all have in common?

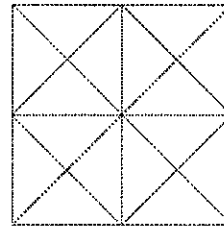



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**4** In the figure below, outline a 4-sided polygon that is not a parallelogram. What is the most precise name for the shape? Explain.

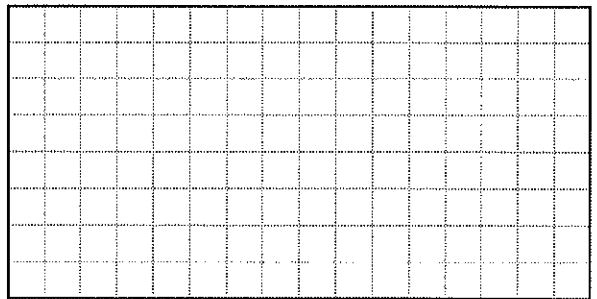



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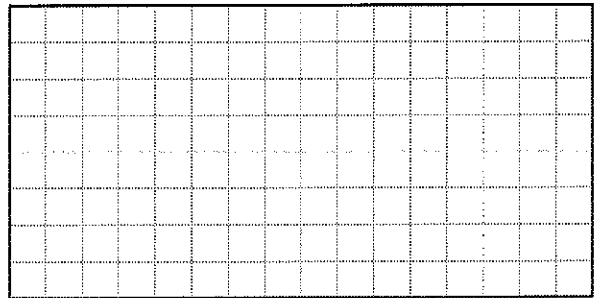
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**5** Sketch two perpendicular lines, one 8 cm long, the other 6 cm long. Draw them so that each line is bisected by the other. Add a vertex at the end of each line. Draw a polygon connecting the vertices. Name the polygon as precisely as possible.

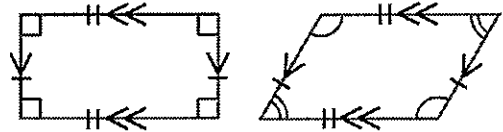



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**6** Sketch two perpendicular lines so that exactly one line is bisected. Add a vertex at the end of each line. Draw a polygon connecting the vertices. Name the polygon as precisely as possible.



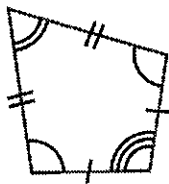
**7** Look closely at the polygons below.



**a.** Explain how they are similar.

**b.** Explain how they are different.

**8** When asked to classify the figure below, here is what four students said.



- Josh: "It's a parallelogram."
- Jessica: "It's a quadrilateral and a kite."
- Dylan: "It's a trapezoid."
- Nicole: "It's a polygon."

Which student or students correctly classified the figure? Explain.

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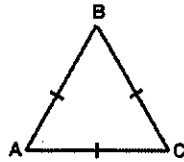
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# 2 Classifying Triangles EVALUATED



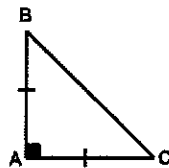
## Skill Builder

**1** Describe what type of triangle is given below.



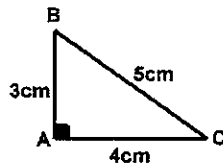
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**2** Describe what type of triangle is given below.



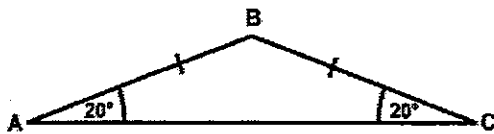
\_\_\_\_\_

**3** Describe what type of triangle is given below.



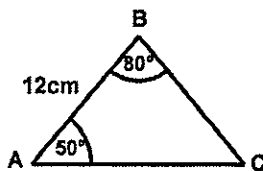
\_\_\_\_\_

**4** Describe what type of triangle is given below.



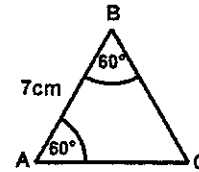
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**5** Determine  $m\overline{BC}$  in the triangle below.



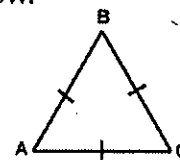
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**6** Determine  $m\overline{BC}$  in the triangle below.



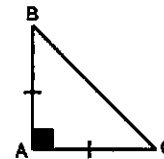
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**7** Determine the measure of  $\angle ABC$  in the triangle below.



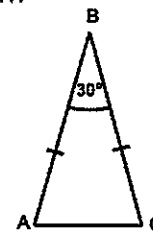
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**8** Determine the measure of  $\angle ABC$  in the triangle below.



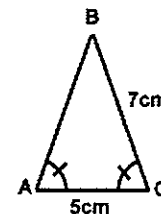
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**9** Determine the measure of  $\angle CAB$  in the triangle below.



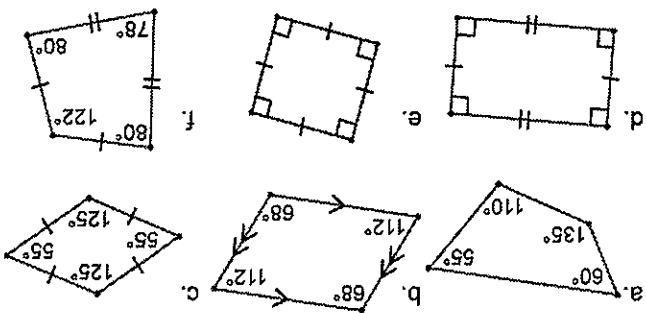
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**10** Determine  $m\overline{AB}$  in the triangle below.



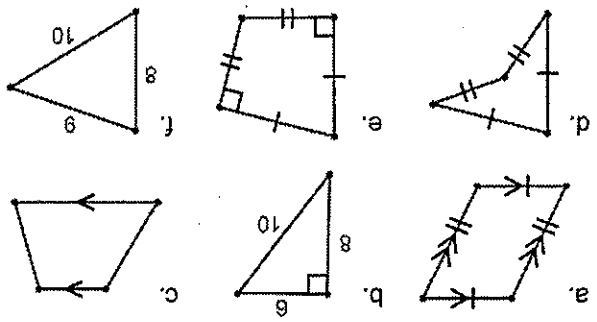
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10 Classify the following figures based on the sides and angles.



- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

9 Classify the following figures based on the sides and angles.



- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_