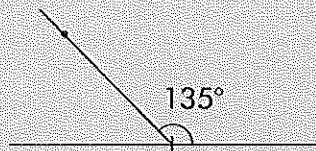


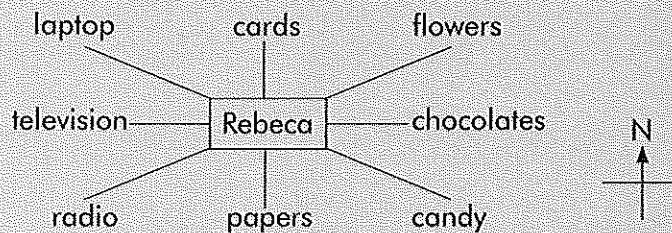
Unit 6: ANGLES

Examples:

1. Draw an angle equal to 135° .



2. Rebeca is playing a game. She stands in the middle of a room.



- (a) Rebeca is facing northwest. What can she see?

laptop

- (b) Rebeca is facing south. If she turns 90° counterclockwise, what will she see?

chocolates

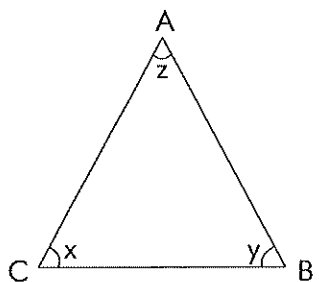
- (c) Rebeca will see the flowers if she turns 180° clockwise. In which direction is Rebeca facing?

southwest

- (d) Rebeca is looking at the papers. If she turns 315° counterclockwise, she will see the radio.

Name the marked angles in another way.

1.

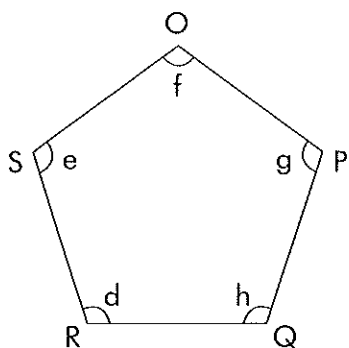


$\angle ABC =$ _____

$\angle ACB =$ _____

$\angle BAC =$ _____

2.



$\angle d =$ _____

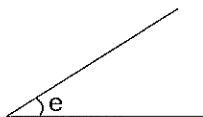
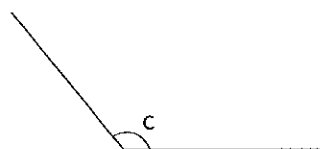
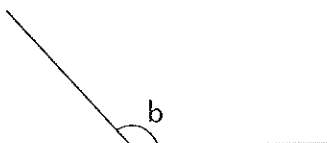
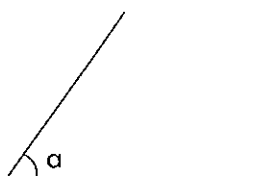
$\angle e =$ _____

$\angle f =$ _____

$\angle g =$ _____

$\angle h =$ _____

Study the following angles and answer questions 3 and 4.

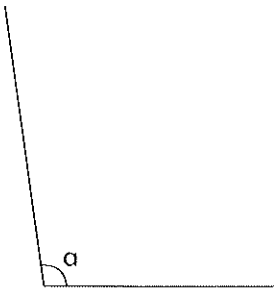


3. Identify the angles that are greater than 90° .

4. Identify the angles that are smaller than 90° .

Estimate and measure the marked angles with a protractor.

5.



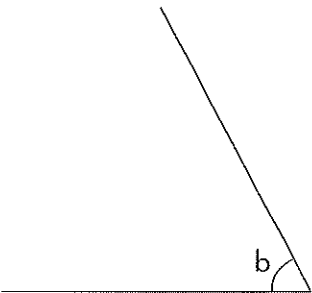
Estimated value

Actual measurement

$\angle a = \text{ ______ }^\circ$

$\angle a = \text{ ______ }^\circ$

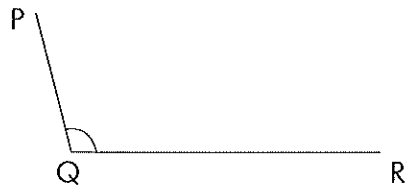
6.



$\angle b = \text{ ______ }^\circ$

$\angle b = \text{ ______ }^\circ$

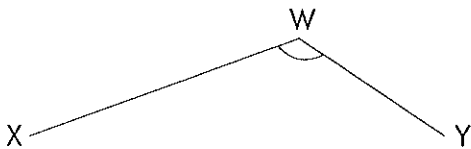
7.



$\angle PQR = \text{ ______ }^\circ$

$\angle PQR = \text{ ______ }^\circ$

8.



$\angle XWY = \text{ ______ }^\circ$

$\angle XWY = \text{ ______ }^\circ$

Draw the following angles in the space below.

9. $\angle p = 75^\circ$

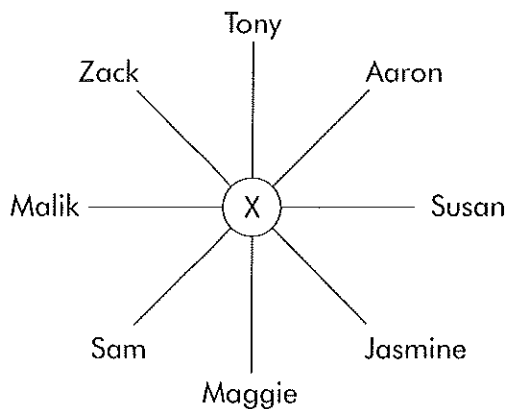
10. $\angle r = 108^\circ$

11. $\angle q = 45^\circ$

12. $\angle s = 134^\circ$

Fill in each blank with the correct answer.

13. A _____-turn equals 1 right angle.
14. A half-turn equals _____°.
15. A _____-turn equals 270° .
16. A complete turn equals _____ right angles.
17. _____ of a complete turn is 180° .
18. _____ of a complete turn is 90° .
19. Which direction is each child from X?



Tony: _____

Aaron: _____

Susan: _____

Jasmine: _____

Maggie: _____

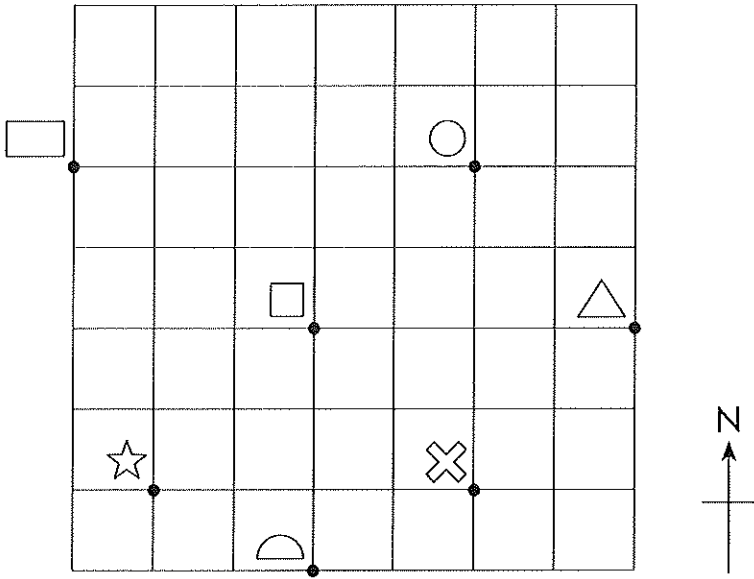
Sam: _____

Malik: _____

Zack: _____

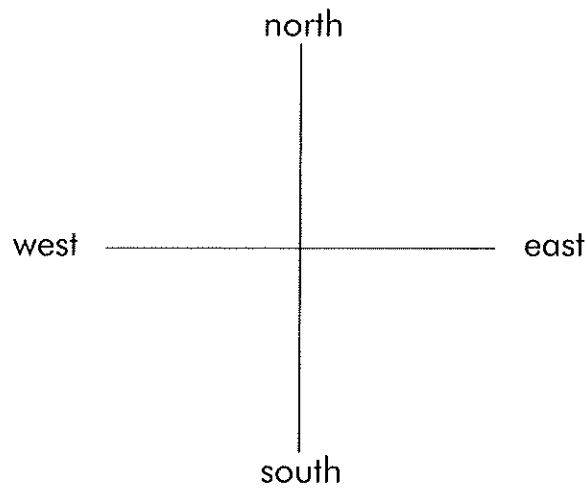
Look at each picture carefully and fill in each blank with the correct answer.

20.



- (a) The circle is _____ of the triangle.
- (b) The semicircle is _____ of the star.
- (c) The square is _____ of the triangle.
- (d) The cross is _____ of the star.
- (e) The square is _____ of the semicircle.
- (f) The circle is _____ of the rectangle.
- (g) The triangle is _____ of the cross.
- (h) The star is _____ of the circle.

21.



- (a) George is facing north. If he turns clockwise _____°, he will face southwest.
- (b) George is facing west. If he turns counterclockwise _____°, he will face east.
- (c) George is facing northwest. If he turns counterclockwise _____°, he will face northeast.
- (d) George is facing south. If he turns counterclockwise _____° , he will face southeast.
- (e) George is facing east. If he makes a _____-turn clockwise, he will face south.
- (f) George is facing north. If he makes a _____-turn counterclockwise, he will face east.