

# Unit 2 Angles in Real Life and Estimating



**Learning Focus:** To identify the features of an angle and identify angles in real life.

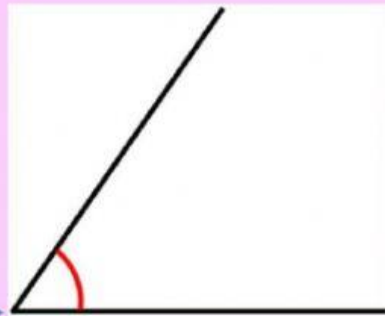
**KEY WORDS**  
 protractor  
 measure  
 measure of a turn  
 degrees  
 ray  
 arm  
 vertex  
 acute angle  
 obtuse angle  
 right angle  
 reflex angle

## What is an angle?

An angle is a measure of a turn between two lines. The curved red line shows the measure of the turn between the two lines.

The two black lines are called **rays**. They can also be called **arms**.

The point where the two rays / arms meet is called the **vertex**.



The curved, red line shows the measure of the turn between the two lines (or rays / arms). This is the **angle**.

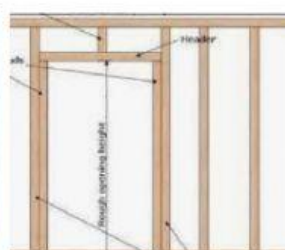


## Where can we see angles in real life?

Angles are all around us. Here are some examples.



Builders use windows and doors to make sure walls, windows and doors are vertical and straight.



What angle is used in all of these images?

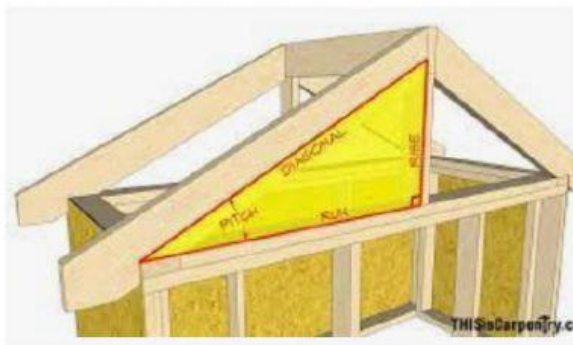
145°

60°

90°

30°

Builders also use angle to create the pitch for a roof.



What is the approximate pitch of these rooves?

145°

60°

90°

30°

*Estimate the size of the angle.*

*Mark your answer with a X*

Q1a.



The angle is approximately:

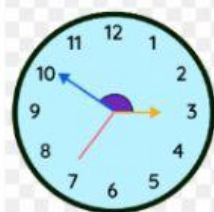
90°

120°

180°

135°

Q1b.



The angle made by the hands of the clock:

90°

120°

80°

150°

Q1c.



The largest angle in the coat hanger:

90°

110°

70°

150°

Q1d.



The angle of the crocodile's mouth:

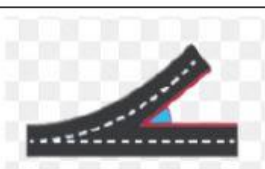
90°

110°

70°

40°

Q1e.



The angle of the road intersection:

90°

30°

50°

100°

Q1f.



The angle of skateboard and leg:

90°

30°

50°

100°

Q1g.



The angle of the fan:

- 90°                      30°  
155°                      100°

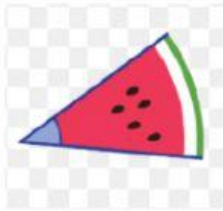
Q1h.



The angle made by the hour and minute hand:

- 90°                      60°  
80°                      30°

Q1i.



The angle of the watermelon wedge:

- 90°                      60°  
80°                      30°

Q1f.



The angle of the stairs:

- 90°                      60°  
135°                      170°

In your math books.

Draw an angle and label its components.

Use the words RAY ANGLE and VERTEX

Use the magazines to find pictures that show angles.

Use a ruler to draw the angle with a marker or felt pen.

Paste the image into your book.

Measure and record the size of the angle.

