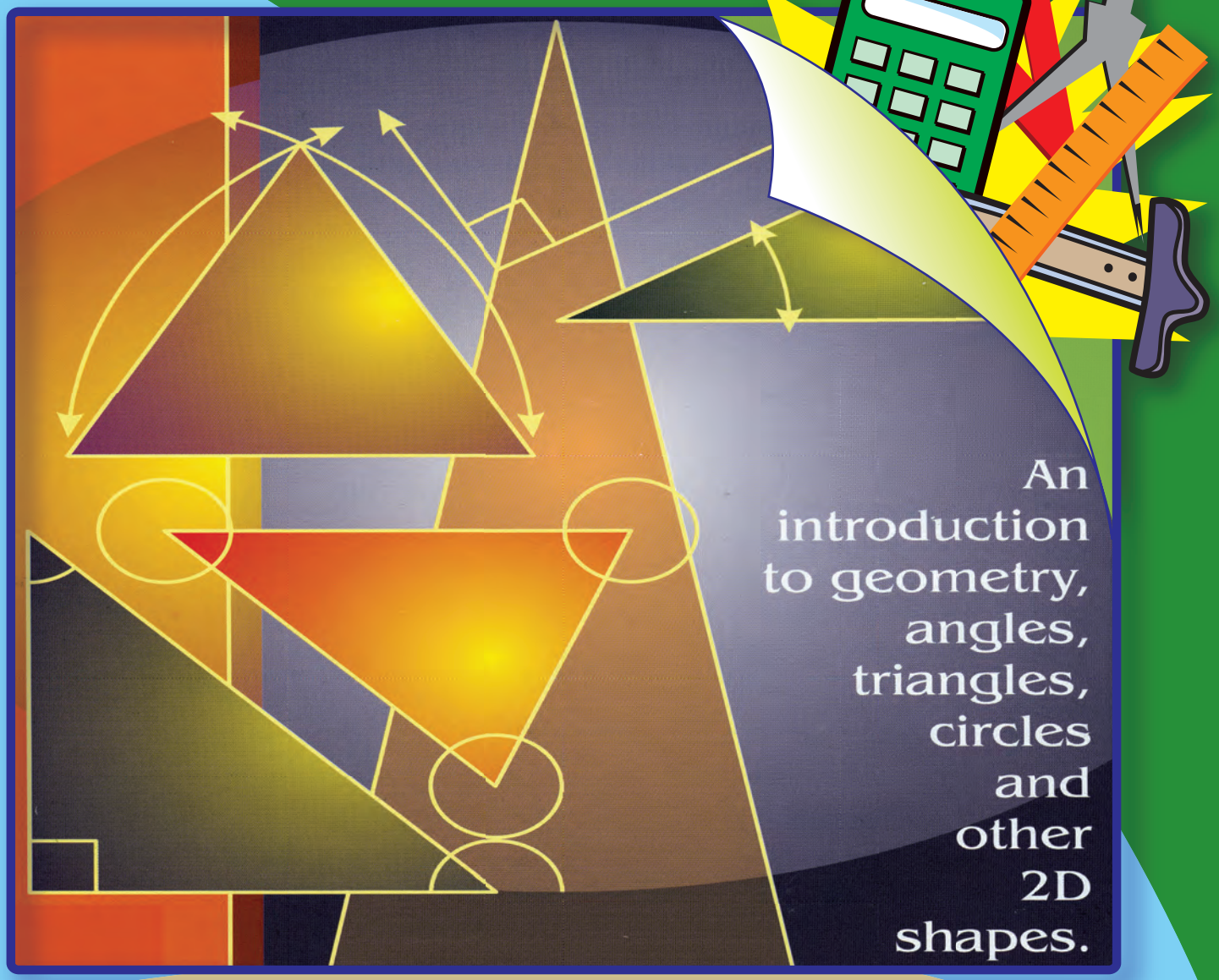
Mathematics

Activity Book

An Angle on Geometry

Teacher Edition

GRADES 5-6

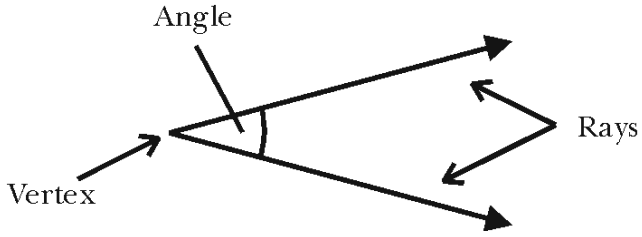


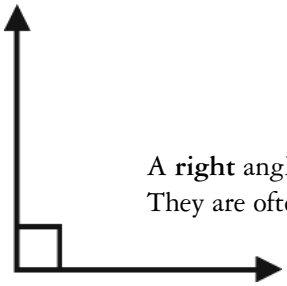
NewPath Learning

Contents

Looking at Different Angles

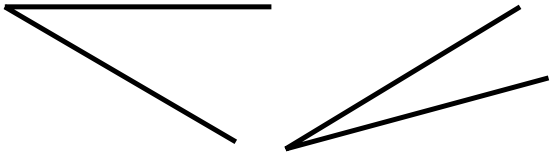
An angle is the amount of turn between two lines around a common point.
The lines are known as rays and the point at which they meet is called a **vertex**.



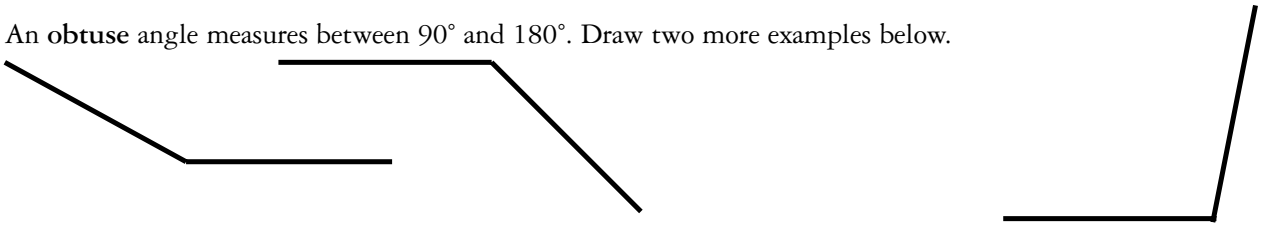


A **right** angle is an angle that measures exactly 90°
They are often marked with a square at the angle.

An **acute** angle is an angle less than 90°. Draw two more examples below.

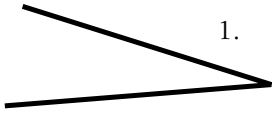


An **obtuse** angle measures between 90° and 180°. Draw two more examples below.



❑ Tick the angles below that are right angles. Draw a circle around the acute angles and put a cross inside the angles that are obtuse.

1.



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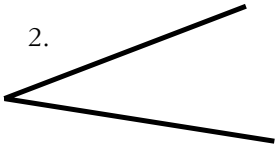

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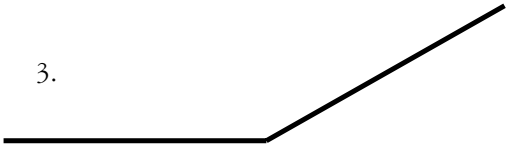

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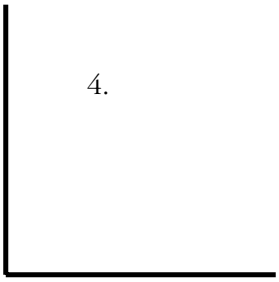

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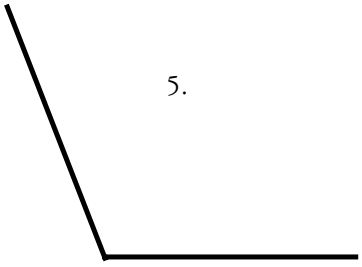

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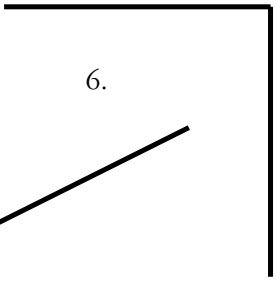

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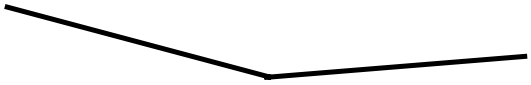

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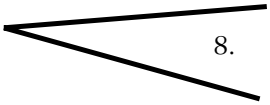

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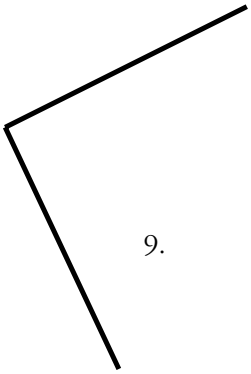
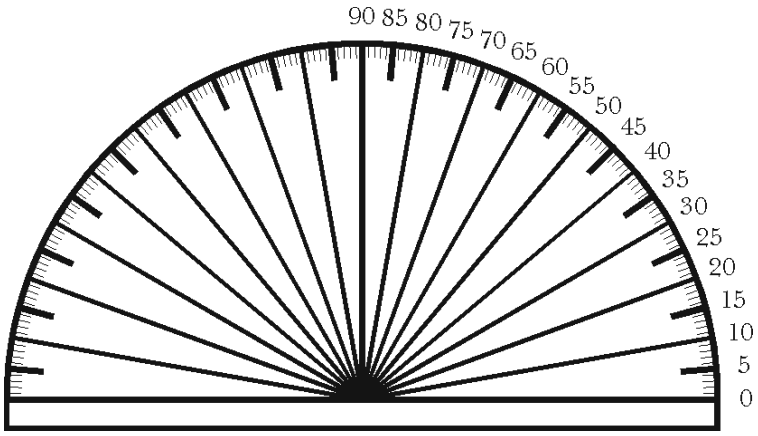


Measuring Angles 1

Angles are measured in degrees. This is usually expressed with this symbol °. A protractor is used to measure angles.Using a protractor follow the example below and then complete the activities.

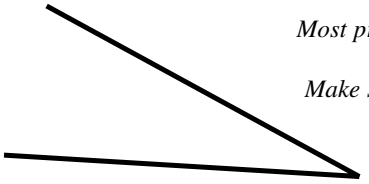


To measure an angle:

1. Place the center of the protractor on the corner or sharpest point (vertex) of the angle.

2. Turn the protractor so that the base line runs along one of the lines that forms the angle.

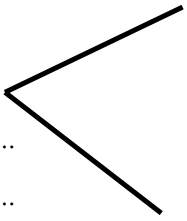
3. You can then read the size of the angle from the position of the second line. For example this angle is approximately _____°



Most protractors number the angles both clockwise and counter-clockwise. Make sure that you start at 0 and follow the correct set of numbers.

❑ Measure the angles below and write down the type of angle for each one, such as acute, obtuse or right.

a.



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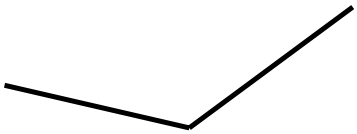
b.



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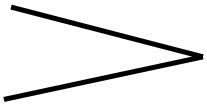
c.



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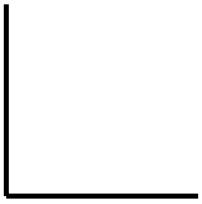
d.



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e.

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f.

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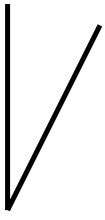
g.



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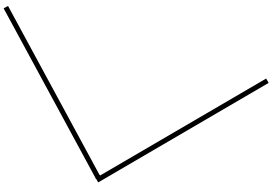
h.



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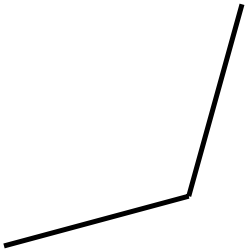
i.



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