**North Penn School District**

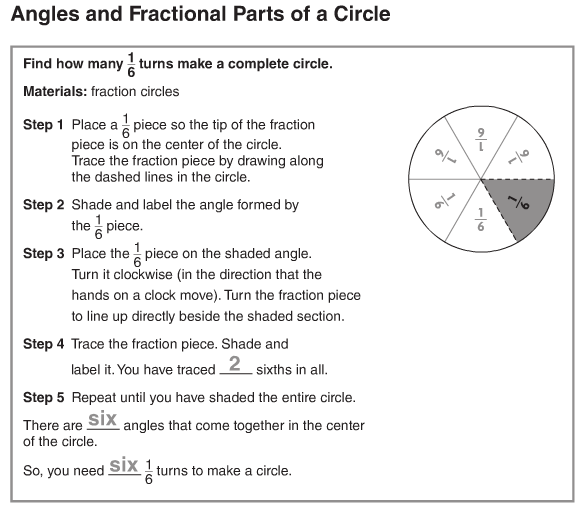
**Elementary Math Parent Letter**

**Grade 4**

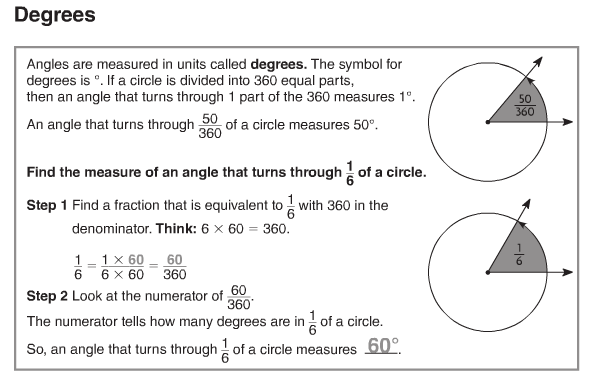
**Unit 5 – Chapter 11: Angles**

**Examples for each lesson:**

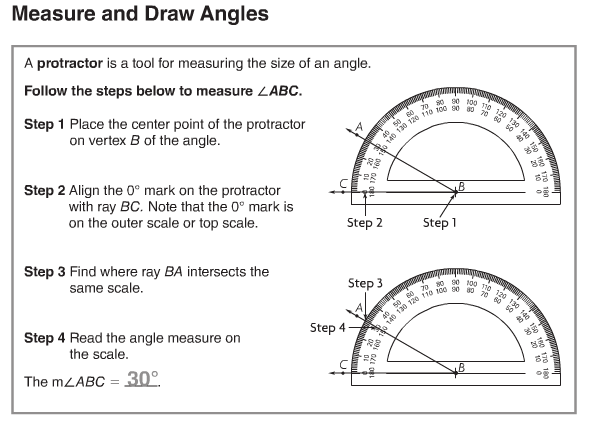
**Lesson 11.1**



**Lesson 11.2**

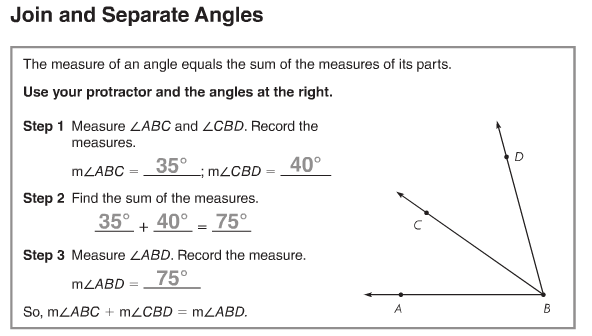


**Lesson 11.3**

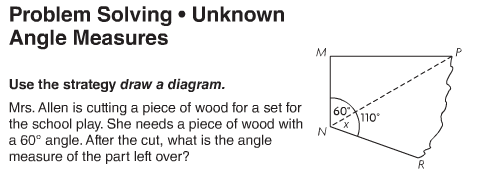


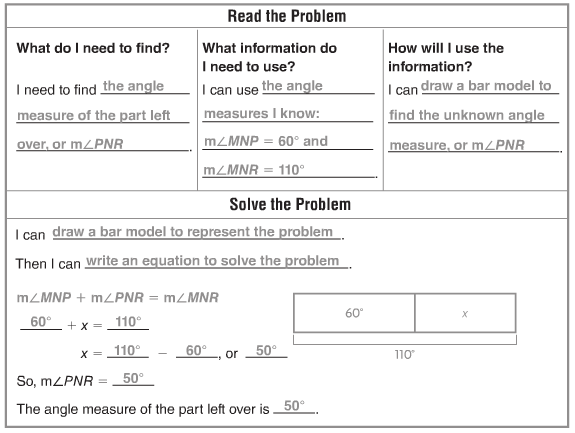
More information on this strategy is available on Animated Math Model #44.

**Lesson 11.4**



**Lesson 11.5**





**Vocabulary**

**Clockwise** – in the same direction in which the hands of a clock move

**Counterclockwise** – in the opposite direction in which the hands of a clock move

**Degree (°)** – the unit used for measuring angles

**Protractor** – a tool used for measuring the size of an angle

**Acute angle** – an angle that measure greater than 0° and less than 90°

**Obtuse angle** – an angle that measures greater than 90**°** and less than 180°

**Ray** – a part of a line; it has one endpoint and continues without end in one direction

**Right angle** – an angle that forms a square corner and has a measure of 90°

**Vertex** – the point at which two rays on an angle meet or two (or more) line segments meet in a two-dimensional shape