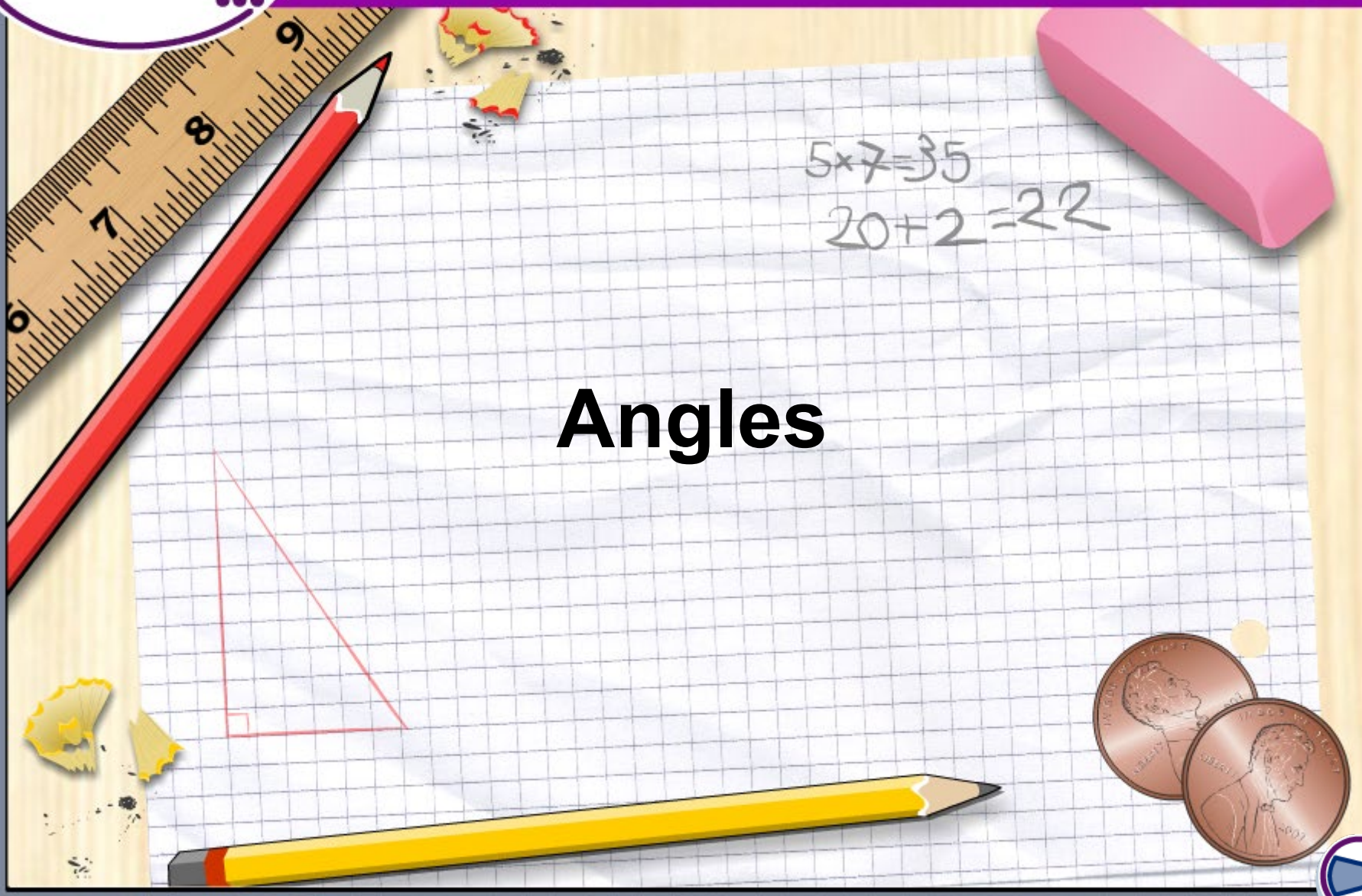
Angles



Information

Common core icons

This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.

Slides containing examples of mathematical modeling are marked with this stamp.

This icon indicates an opportunity for discussion or group work.

The **Standards for Mathematical Practice** outlined in the Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

1) Make sense of problems and persevere in solving them.

2) Reason abstractly and quantitatively.

3) Construct viable arguments and critique the reasoning of others.

4) Model with mathematics.

5) Use appropriate tools strategically.

6) Attend to precision.

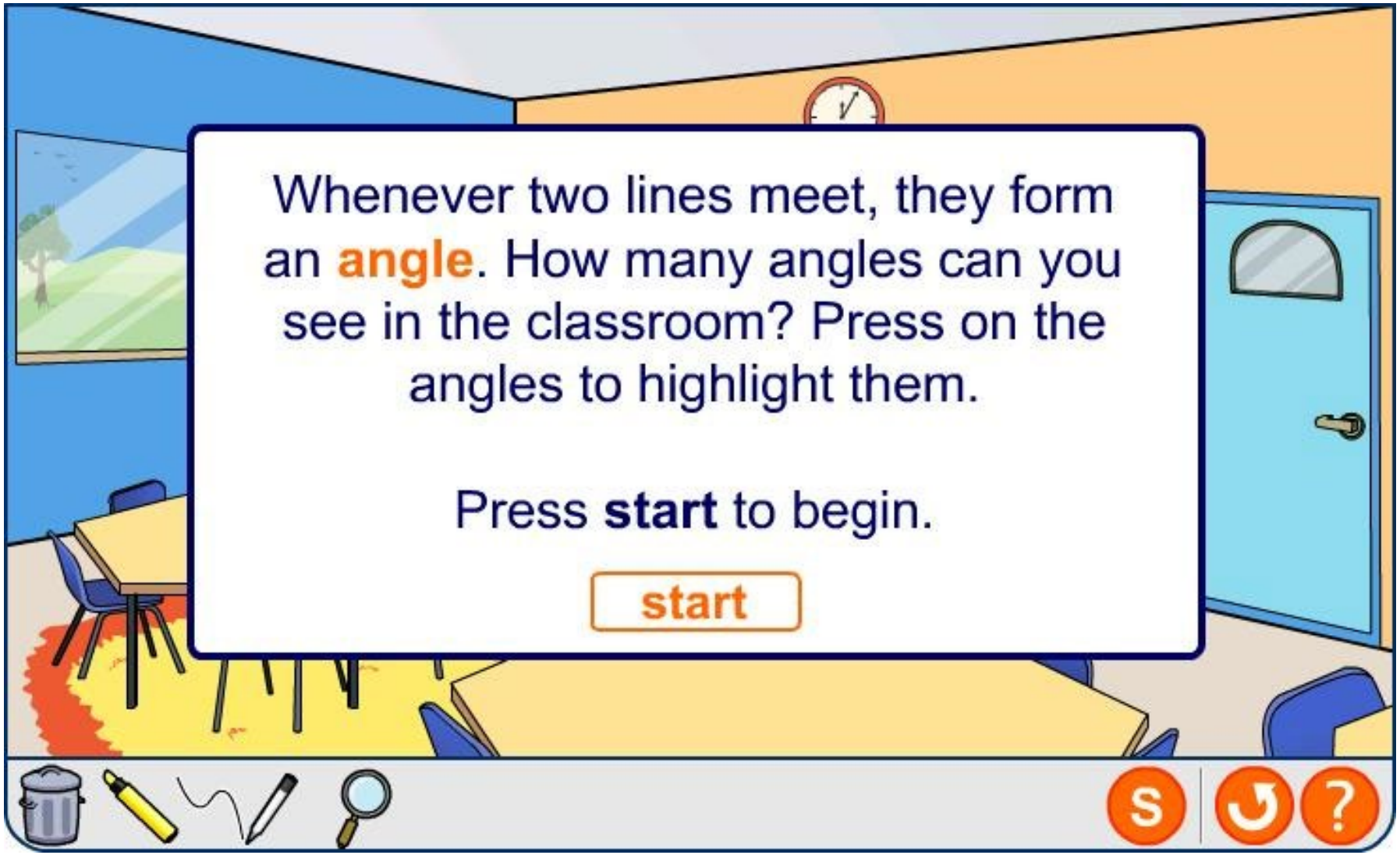
7) Look for and make use of structure.

8) Look for and express regularity in repeated reasoning.

This icon indicates that the slide contains activities created in Flash. These activities are not editable.

This icon indicates teacher's notes in the Notes field.

Find the angles



Measuring angles

An angle is a measure of a turn.

Measuring angles: practice

Drag the blue circle to create an angle. Use the protractor tool to measure your angle, then press the blue box to check your answer.

Press **start** to begin.

start

36

12

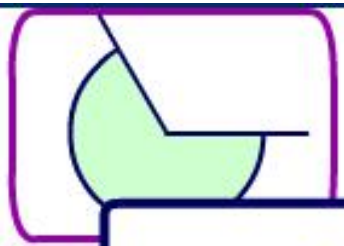
8

4

0

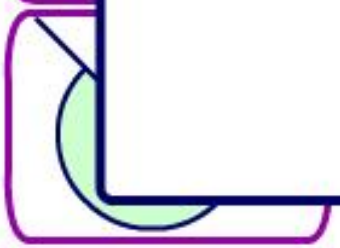
angle:

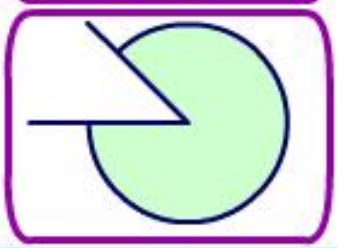
Matching angles



$\frac{5}{8}$ of a full turn

225°





$\frac{2}{3}$ of a full turn

315°

Connect the angle with the descriptions of its size.

Press **start** to begin.

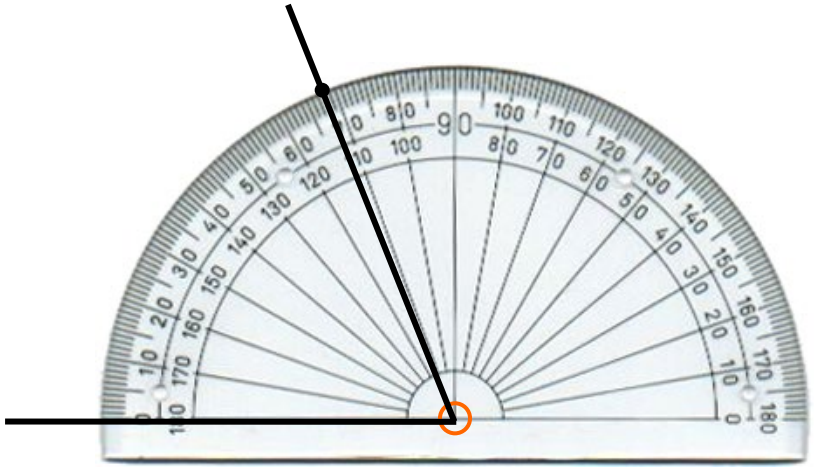
start

Drawing angles

How could you use a protractor to draw a 68° angle?

Draw a horizontal line with a ruler.

Put the 0° line of the protractor along your line with the center of the protractor at one end.



Mark a point at 68° from the 0° line.

Use a ruler to draw a line through the point.

Drawing angles: practice

Use the border tools to practice drawing and measuring angles.

Set the pen tool to draw straight lines by pressing the curved line next to the pen icon. Press again to draw curved lines.

Press **start** to begin.

start

Calculating angles

Angles on a straight line | Angles in a right angle | Angles around a point

Adjacent angles, or angles that are next to each other, can be added together and broken apart to calculate the size of unknown angles.

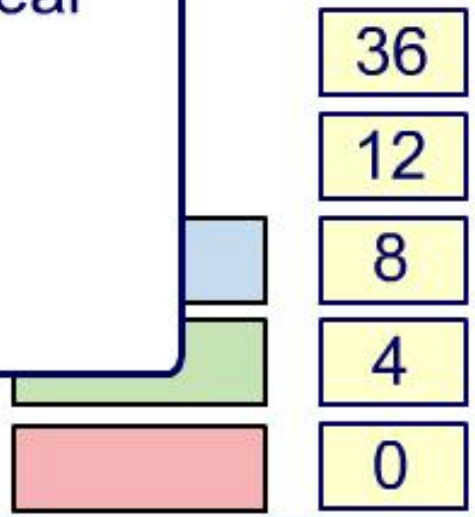
Press on each tab to see how to calculate angles on a straight line, in a right angle and around a point.

Angles on a straight line

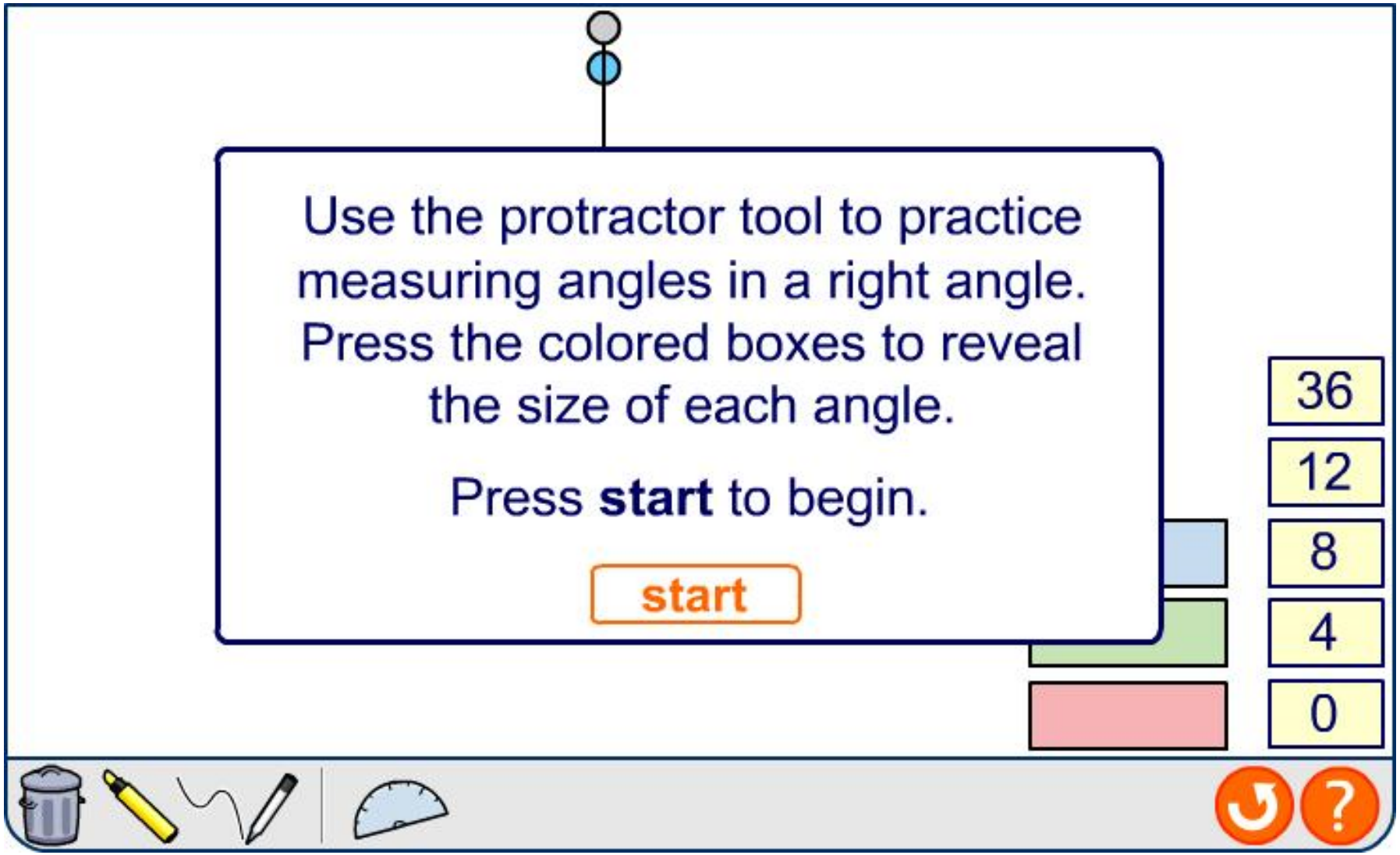
Use the protractor tool to practice measuring angles on a straight line. Press the colored boxes to reveal the size of each angle.

Press **start** to begin.

start



Angles in a right angle

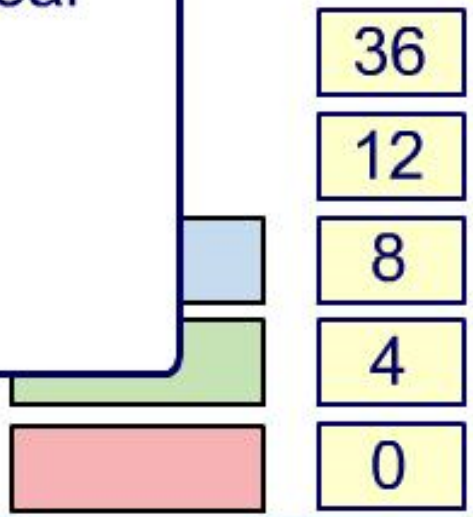


Angles around a point

Use the protractor tool to practice measuring angles around a point. Press the colored boxes to reveal the size of each angle.

Press **start** to begin.

start



Real-life angles

A sprinkler head turns 115° and pauses. It then turns another 65°.
What is the total size of the sprinkler's turn?

50°

180°

360°