MATH

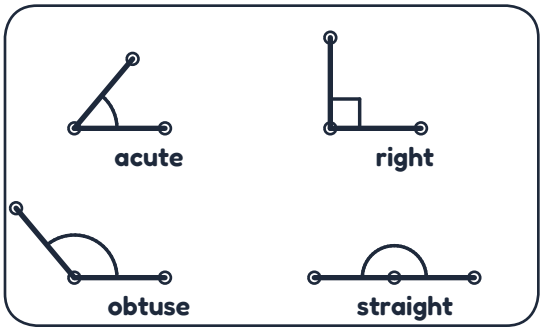
Types of angles

Name _____ Date _____

I can name acute, right, obtuse and straight angles.

1 How it works

An angle is made by two rays that meet at a point called the vertex. A right angle is a square corner, exactly 90°. An acute angle is smaller than a right angle. An obtuse angle is bigger than a right angle but smaller than a straight line. A straight angle is a straight line, 180°.



2 Name each angle

Write acute, right or obtuse.

1.



2.



3.



4.



5.



6.



7.



8.



How did I do? ☆ ☆ ☆

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Sort the angles

Name _____ Date _____

I can tell the type of an angle from its size.

1 Circle the type of each angle

1.	45°	acute	right	obtuse	straight	2.	35°	acute	right	obtuse	straight
3.	90°	acute	right	obtuse	straight	4.	140°	acute	right	obtuse	straight
5.	110°	acute	right	obtuse	straight	6.	50°	acute	right	obtuse	straight
7.	180°	acute	right	obtuse	straight	8.	80°	acute	right	obtuse	straight
9.	15°	acute	right	obtuse	straight	10.	60°	acute	right	obtuse	straight
11.	145°	acute	right	obtuse	straight	12.	125°	acute	right	obtuse	straight

2 Draw each angle

Start at the dot. Use the line given.

1. Draw an acute angle

2. Draw a right angle

3. Draw an obtuse angle

4. Draw a straight angle

How did I do? ☆ ☆ ☆

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Angles on a clock

Name _____ Date _____

I can find angles in the world around me.

1 What angle do the hands make?

Write acute, right, obtuse or straight.



3:00



11:00



6:00



8:00

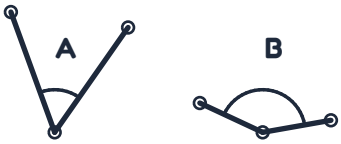
2 Which angle is bigger? Circle it.

Look at the opening, not the length of the lines.

1.



2.



3.



3 Think about it

1. How many right angles make a straight angle?
2. Can a triangle have two right angles?
3. What angle do clock hands make at 9:00?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use geometry to solve problems.

1 Read, think, answer

Draw a picture in the box.

1 The hands of a clock show 3:00. What kind of angle do they make? What about at 6:00?

Answer:

2 Aisha cuts a round pizza into 8 equal slices. Is the angle at the tip of one slice acute, right or obtuse?

Answer:

3 Look at the corner of a door. What kind of angle is it? Name one more thing at home with that angle.

Answer:

4 Omar says, "Two acute angles can never make an obtuse angle." Is Omar right? Give an example.

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: types of angles

1 Page 1

Angles: 1) obtuse (155°); 2) right (90°); 3) acute (45°); 4) acute (60°); 5) acute (55°); 6) obtuse (120°); 7) right (90°); 8) obtuse (155°).

2 Page 2

Sort: 1) 45° acute; 2) 35° acute; 3) 90° right; 4) 140° obtuse; 5) 110° obtuse; 6) 50° acute; 7) 180° straight; 8) 80° acute; 9) 15° acute; 10) 60° acute; 11) 145° obtuse; 12) 125° obtuse.

Draw: answers will vary. Check that acute is less than 90°, right is a square corner, obtuse is between 90° and 180°, and straight is a straight line.

3 Page 3

Clocks: 1) 3:00 right; 2) 11:00 acute; 3) 6:00 straight; 4) 8:00 obtuse.

Bigger: 1) B (30° and 50°); 2) B (55° and 145°); 3) B (25° and 115°).

Think: 1) 2; 2) No. The two right angles would already use 180°; 3) A right angle (90°).

4 Page 4: word problems

1) 3:00: a right angle. 6:00: a straight angle.

2) Acute (each slice is 45°)

3) A right angle. Examples: a book corner, a window, a sheet of paper

4) No. 60° + 50° = 110°, which is obtuse.

5 Teaching tip

Make a right-angle checker by folding a scrap of paper in half twice. Children hold its corner in each angle: if the angle is smaller, it is acute; bigger, obtuse.

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