MATH

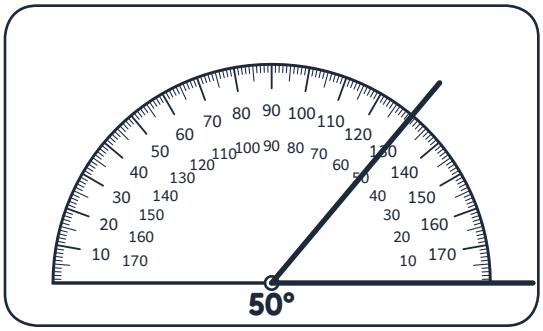
Measuring angles

Name _____ Date _____

I can measure and add angles with a protractor.

1 How it works

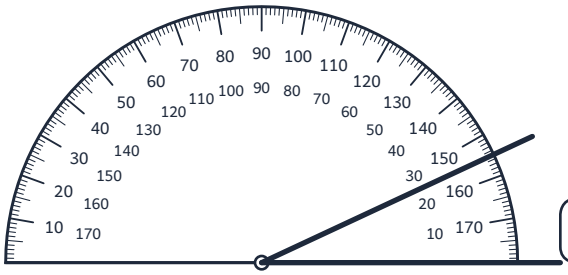
Angles are measured in degrees (°). Put the center of the protractor on the vertex and line up the 0 line with one ray. Read the number where the other ray crosses the scale, using the scale that starts at 0 on your first ray. When an angle is split into parts, the parts add up to the whole angle.



2 Read the protractor

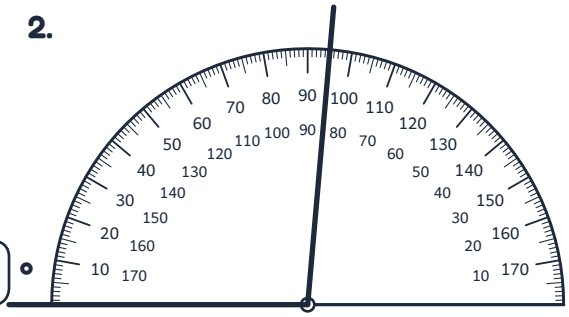
Start from the 0 on the ray at the bottom.

1.



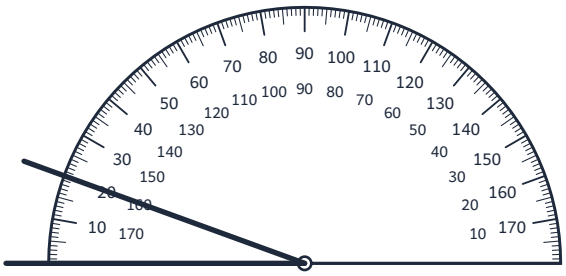
_____ °

2.



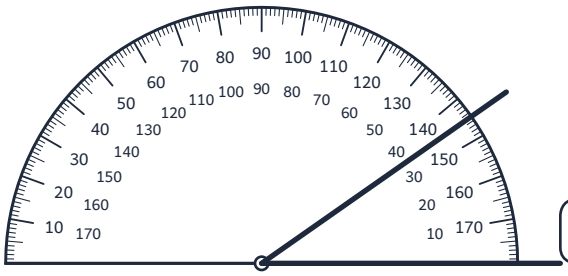
_____ °

3.



_____ °

4.



_____ °

How did I do? ☆ ☆ ☆

Scan for more free practice

Measure the angles

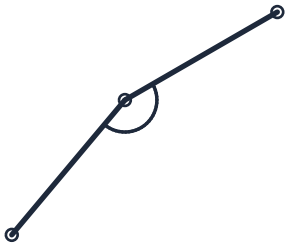
Name _____ Date _____

I can measure an angle with a protractor.

1 Use a protractor to measure each angle

Estimate first: more or less than 90°?

1.



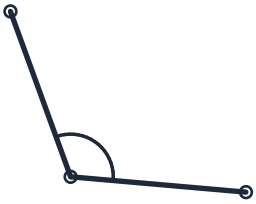
____ °

2.



____ °

3.



____ °

4.



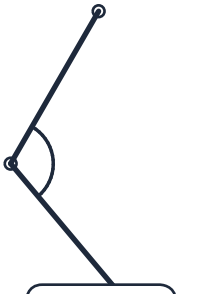
____ °

5.



____ °

6.



____ °

How did I do? ☆ ☆ ☆

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Adding angles

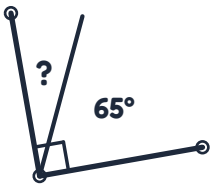
Name _____ Date _____

I can find a missing angle by adding or subtracting.

1 Find the missing angle

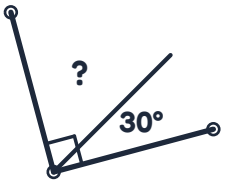
The whole angle is given. Subtract the part you know.

1. whole: 90°



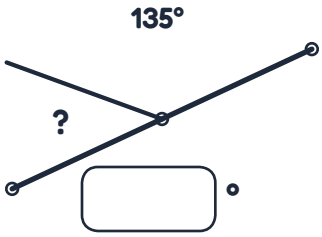
____ °

2. whole: 90°



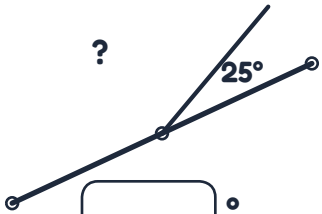
____ °

3. whole: 180°



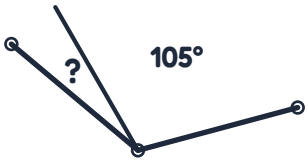
____ °

4. whole: 180°



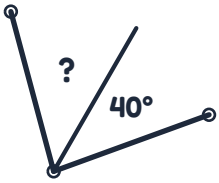
____ °

5. whole: 125°



____ °

6. whole: 85°



____ °

3 Think about it

1. How many degrees are in a full turn? _____
2. Two angles make a right angle. One is 35°. What is the other? _____
3. Is a 175° angle closer to a straight angle or a right angle? _____

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 A slice of pie has an angle of 45°. How many slices of that size make a full circle of 360°?

Answer:

2 The minute hand turns 6° every minute. How many degrees does it turn in 15 minutes?

Answer:

3 A ladder leans on a wall and makes a 70° angle with the ground. What angle does it make with the wall, if the wall and ground meet at 90°?

Answer:

4 Mia turns 120° and then 60° more. How far has Mia turned in all? Is that a straight angle?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: measuring angles

1 Page 1

Protractor: 1) 25°; 2) 95°; 3) 20°; 4) 35°.

2 Page 2

Measure: 1) 160°; 2) 130°; 3) 115°; 4) 60°; 5) 95°; 6) 110°.
Answers within 2° either way are fine.

3 Page 3

Missing angles: 1) 90 − 65 = 25°; 2) 90 − 30 = 60°; 3) 180 − 135 = 45°; 4) 180 − 25 = 155°; 5) 125 − 105 = 20°; 6) 85 − 40 = 45°.
Think: 1) 360°; 2) 55°; 3) A straight angle (only 5° away).

4 Page 4: word problems

1) 360 ÷ 45 = 8 slices
2) 6 × 15 = 90°
3) 90 − 70 = 20°
4) 180°. Yes, it is a straight angle (a half turn).

5 Teaching tip

Most mistakes come from reading the wrong scale. Ask children to estimate first: is the angle smaller or bigger than a right angle? That tells them whether the answer is under or over 90.

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