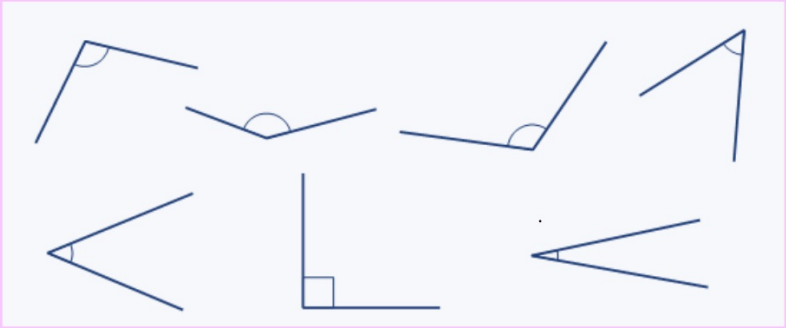
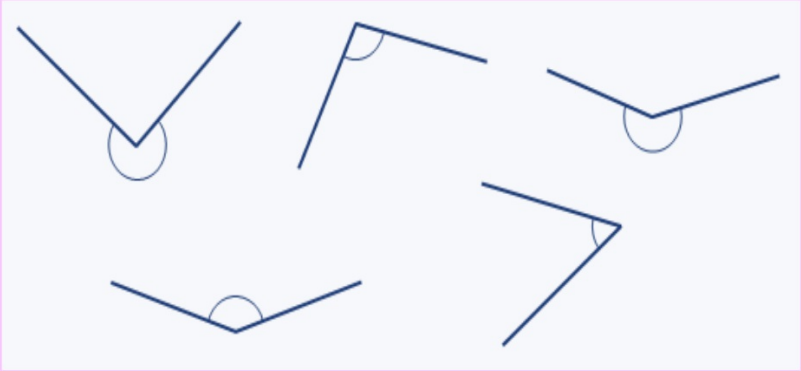
Warm-up

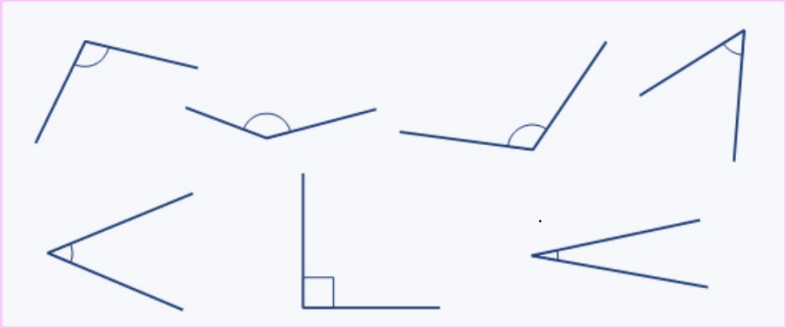


How many acute angles are there?
How many obtuse angles are there?

How many reflex angles are there?



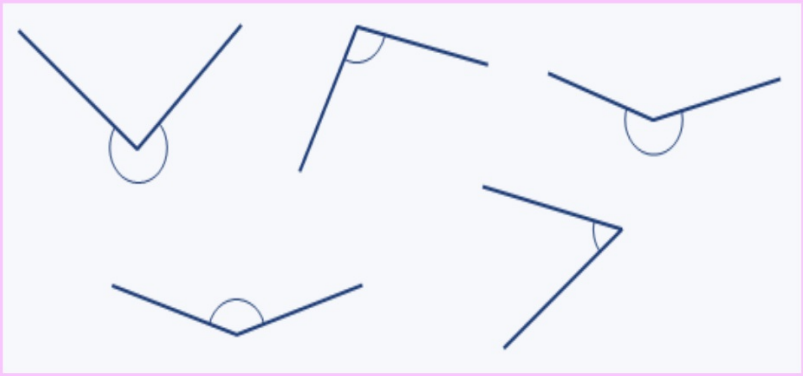
Warm-up



How many acute angles are there? 3

How many obtuse angles are there? 3

How many reflex angles are there? 2

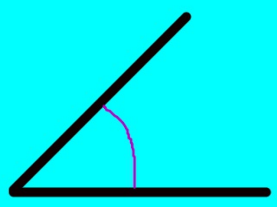


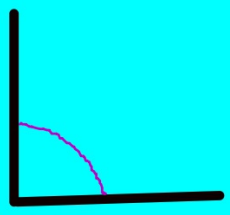
What is an angle?

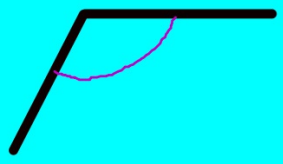
How are angles measured?

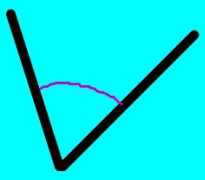
What types of angles do you know?

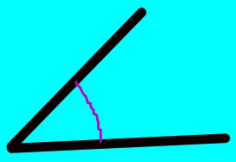
Can I estimate the size of angles?











Can I estimate the size of angles?

Angle size attempted: 45°

Actual:

Angle size attempted: 110°

Actual:

Can I estimate the size of angles?

1) Copy the following down first before attempting your angle.

Angle size attempted:

Actual:

2) Attempt to draw the angle with just a ruler.

3) Measure your angle with a protractor and give yourself a score:

within 10° = 5 points

within 5° = 10 points

within 2° = 20 points

4) If you are more than 10° out.

1) 55°

2) 85°

3) 135°

4) 25°

5) 105°

6) 18°

7) 72°

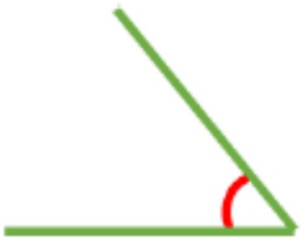
8) 149°

9) 200°

10) 304°

Can I estimate the size of angles?

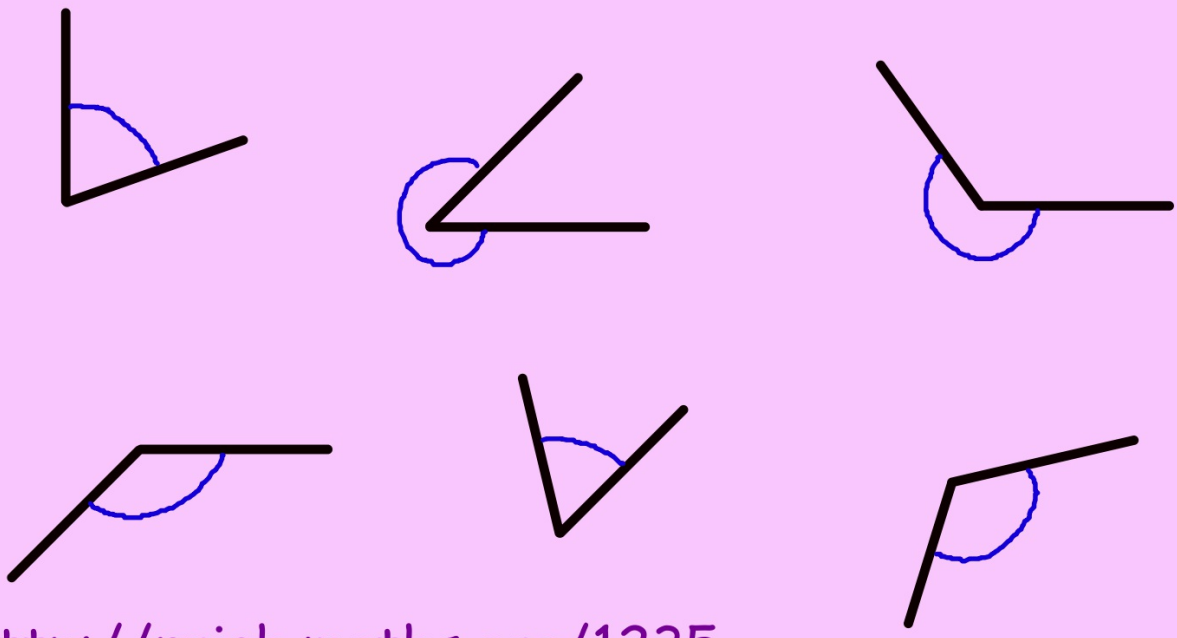
Alex measures this angle:



She says it is 130°

Explain what she has done wrong.

Warm-up



http://nrich.maths.org/1235

Can I draw angles with a protractor?

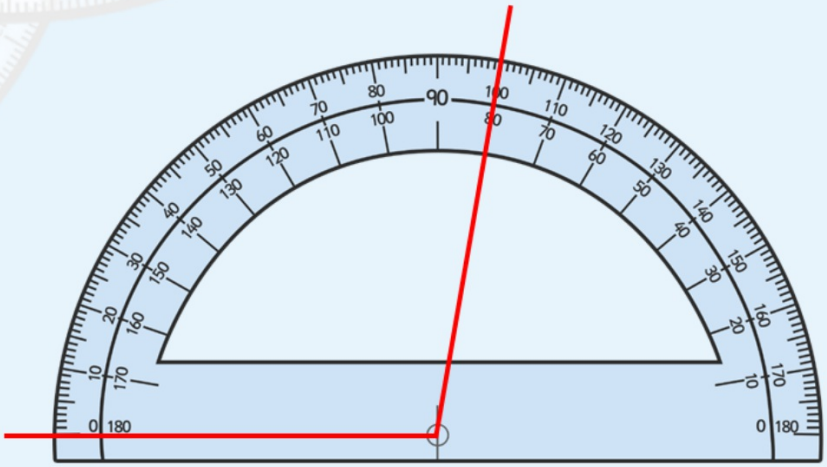
How do you draw angles with a protractor?

What can you tell me about a protractor?

What do you need to watch out for?

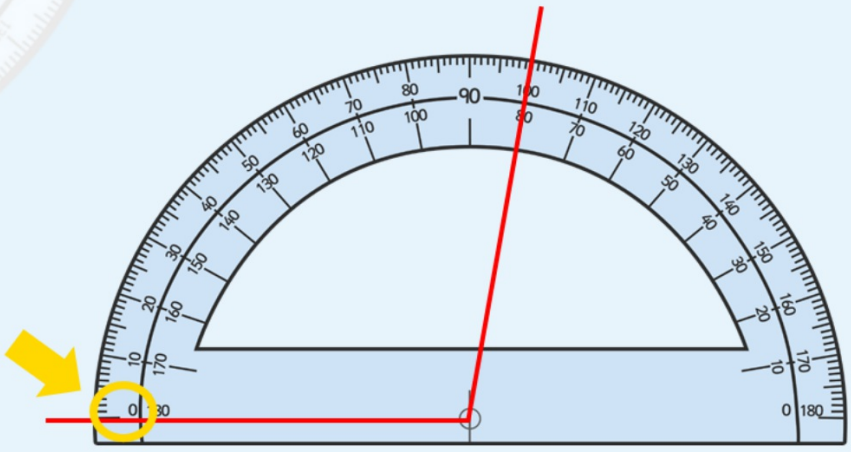
Can I draw angles with a protractor?

1 Place the cross or circle at the point (vertex) of the angle that you are measuring.



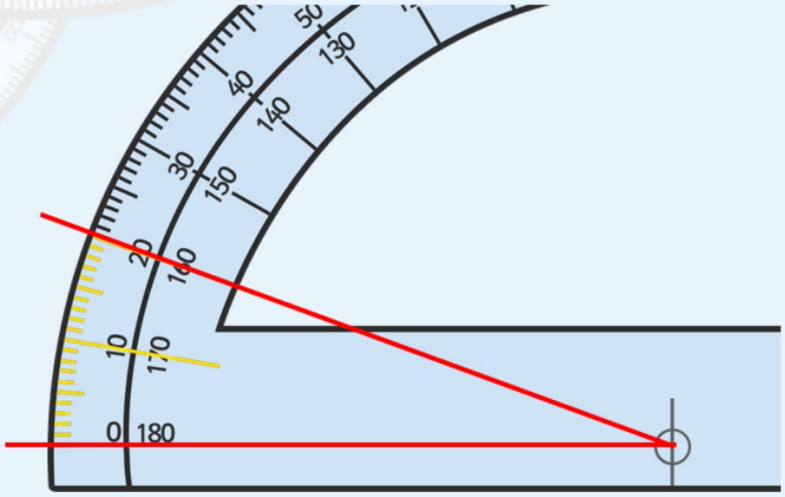
Can I draw angles with a protractor?

2 Read from the zero on the outer scale of your protractor.



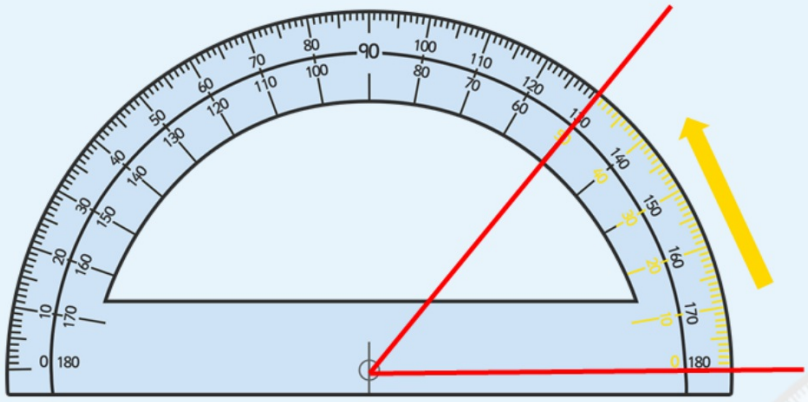
Can I draw angles with a protractor?

3 Count the degree lines carefully.

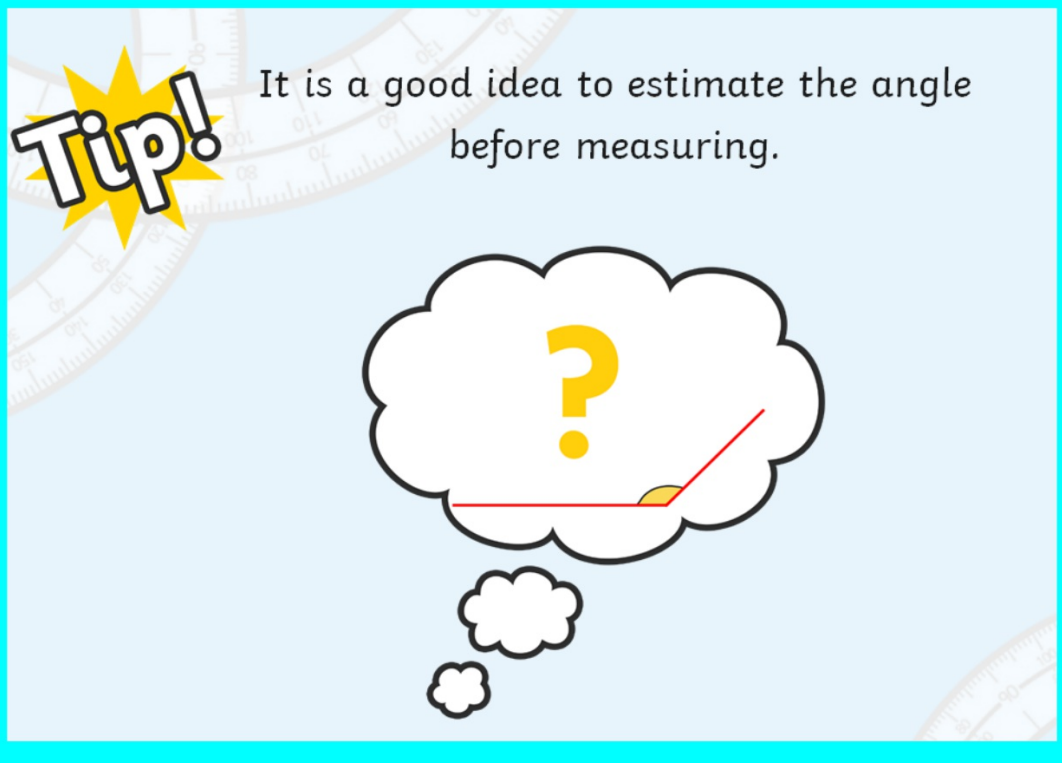


Can I draw angles with a protractor?

4 If the angle that you are measuring turns in an anti-clockwise direction, you will need to use the inner scale of your protractor.



Can I draw angles with a protractor?



Can I draw angles with a protractor?

Angle size: 45°

Angle size: 110°

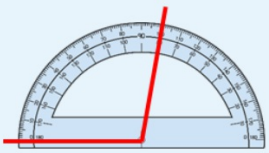
Can I draw angles with a protractor?

Remember to label the angles you draw.

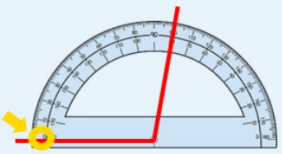
1) 40°
2) 75°
3) 130°
4) 150°
5) 15°
6) 37°
7) 86°
8) 123°
9) 200°
10) 310°

Can I draw angles with a protractor?

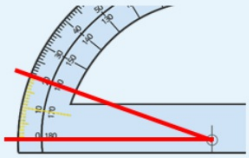
1. Place the cross or circle at the point (vertex) of the angle that you are measuring.



2. Read from the zero on the outer scale of your protractor.



3. Count the degree lines carefully.



4. Use the inner scale of your protractor if the angle turns in an anti-clockwise direction..