**I know the difference between acute,**

**obtuse and reflex angles**

1. A ship is sailing north. The captain wants to go south. How many degrees must he turn the boat? What type of angle is this?
2. What is the type of angle of a slice of cake that has been cut into:
   1. 4 slices
   2. 5 slices
   3. 2 slices
   4. 10 slices
3. Comic Relief was on for 7 hours, from 6pm to 1 am. How many degrees did the hour hand turn during this time? What type of angle is this?
4. Draw the following polygons:
   1. A triangle with three acute angles
   2. A triangle with two acute and one obtuse
   3. A quadrilateral with two acute and two obtuse
   4. A quadrilateral with one reflex
5. Can a triangle contain two obtuse angles? Explain.
6. What sort of angles can a quadrilateral have? Describe as many as you can with diagrams.

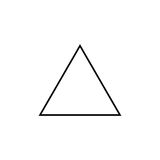
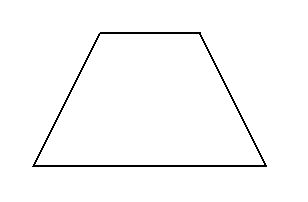
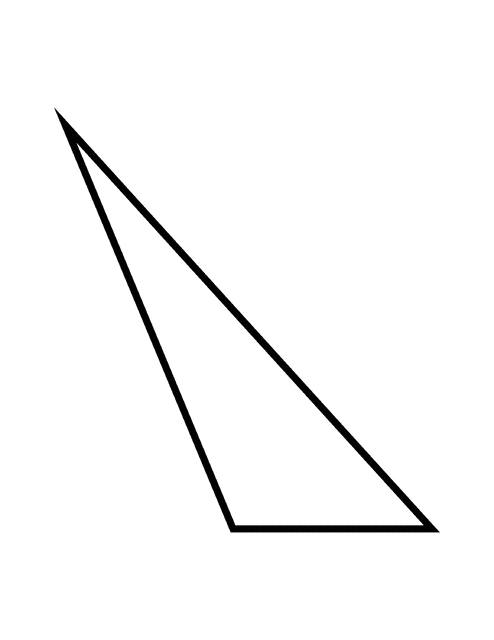
Answers

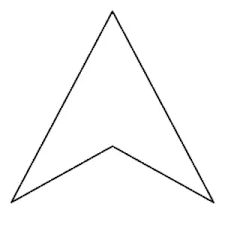
1. 180˚obtuse
2. a) Right angle

b) Acute

c) Obtuse

d) acute

1. [](https://www.google.co.uk/url?sa=i&url=https%3A%2F%2Fwww.dreamstime.com%2Fequilateral-triangle-icon-geometric-figure-element-mobile-concept-web-apps-thin-line-icon-website-design-image108675087&psig=AOvVaw3ZQnrf8iBHKpCD-_780n5H&ust=1591215468313000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCICCldn54-kCFQAAAAAdAAAAABAK)210˚ reflex
2. [](https://www.google.co.uk/url?sa=i&url=https%3A%2F%2Fwww.algebra.com%2Falgebra%2Fhomework%2Fword%2Fnumbers%2FNumbers_Word_Problems.faq.question.1044779.html&psig=AOvVaw24PTGk7sqQaskxFojY-12z&ust=1591215699163000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCOiKmMf64-kCFQAAAAAdAAAAABAE)[](https://www.google.co.uk/url?sa=i&url=https%3A%2F%2Fetc.usf.edu%2Fclipart%2F41700%2F41728%2Ffc_obtusetri_41728.htm&psig=AOvVaw0rTqrbLzWm3H0Mqm6SVOVl&ust=1591215609050000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCNiF2pv64-kCFQAAAAAdAAAAABAK)Answers may vary.
3. b) c)

[](https://www.google.co.uk/url?sa=i&url=https%3A%2F%2Fwww.quora.com%2FIs-arrowhead-name-of-a-geometrical-figure&psig=AOvVaw2cNTvZVcWZ31Vml9akf6XC&ust=1591215757402000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCKi7n-L64-kCFQAAAAAdAAAAABAE)

d)

5) No. You would always need a fourth line to connect the

points.

6) 4 right angles = square, oblong

2 acute and 2 obtuse = parallelogram, rhombus, trapezium or

kite

2 right angles, 1 acute, 1 obtuse = trapezium

1 right angle, 2 obtuse, 1 acute = kite

1 reflex, 3 acute = arrowhead

1 right angle, 2 obtuse angles, 1 acute angle = kite

1 right angle, 2 acute angles, 1 reflex angle = arrowhead