Measuring Angles in Degrees

1. Jessica and Lee are playing a game. Jessica has chosen an angle and given clues to Lee so that he can guess what it is.

Lee is correct. Jessica has turned 180° clockwise, then 45° anti-clockwise.

Various answers, for example:

My angle is an acute angle. I have turned a quarter turn anti-clockwise followed by an eighth of a turn clockwise. What am I? 45°

My angle is a reflex angle. I have turned a quarter turn clockwise followed by a half turn clockwise and then an eighth of a turn clockwise. What am I? 315°

My angle is the same as three right angles clockwise. What am I? 270°

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2. Write a route for Joshua. He must go to all 6 animals and then return to the entrance/exit. Use angle vocabulary to describe his journey.

Various answers, for example:

Go forward to the end of the path and turn a quarter turn anti-clockwise. Go forward and see the hippos on your right.
Turn a half turn clockwise and walk forward to the end of the path. Turn 90° clockwise and walk forwards until you see a turning to your left. Turn 90° anti-clockwise and walk forwards until the path forks. Turn 45° clockwise and walk forwards. You will see the toucans on your left.
Carry on forwards until the road forks again. Turn 45° clockwise again and walk forward. You will see the giraffes on your left.
At the end of the path, turn 90°anti-clockwise and walk forward until the end of the path. Turn 90° anti-clockwise and walk forward. You will see the lions on your left.
Carry on forwards, past the fork on your left, until you reach the end of the path. On your left, you will see the elephants.
Turn 270° clockwise and carry on to the end of the path. You will see the crocodiles on your left.
Turn 180° and walk forward until you see a path on your right. Turn 90° clockwise and go forward until the path forks. Turn 45° clockwise and walk forward until you see the path fork. Turn 45° clockwise and walk to the end of the path. Turn 90° anti-clockwise and walk to the exit.

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