1. Which direction will I face if…
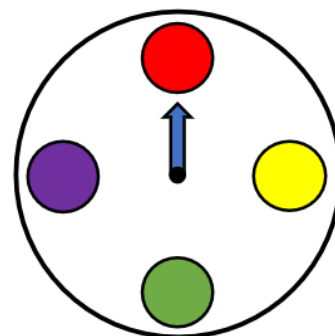
a) I start facing north and turn ¼ clockwise?

b) I start facing west and turn 1 right angle anti-clockwise?

c) I start facing east and turn three quarters anti-clockwise?

d) I start facing south and turn 2 right angles clockwise?

2. Look at the image and describe the turn.

a) What turn is needed to get from red to purple?

b) What turn is needed to get from red to yellow?

c) How could I get from green to red?

3. Answer and EXPLAIN!

a) A compass needle has moved from South to West.

Max and Emmy say:

Max: It has moved a quarter turn clockwise.

Emmy: It has moved a quarter turn anti-clockwise.

Who is correct? Explain how you know.

b) A compass needle has moved from West to North.

Aisha and Scott say:

Aisha: It has moved a quarter turn clockwise.

Scott: It has moved a three quarter turn anti-clockwise.

Who is correct? Explain how you know.

4) I am facing east and I turn 90° clockwise. Which direction am I now facing?

5) Before turning 180° clockwise I was facing north. Which direction am I facing now?

6) I am looking NE. I turn 90° clockwise. Which way am I now looking?

EXTENSION: Write your own questions in the style of Q1 and 2!