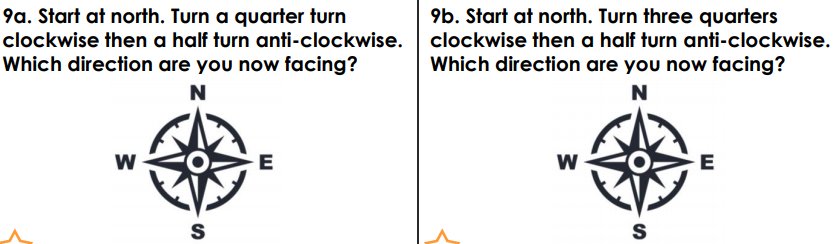
Maths Angles and turns

Using the compass answer these questions.

I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a half turn anti-clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a three-quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face East, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face West, I make a half turn anti-clockwise. I now face \_\_\_\_\_\_\_\_\_

I face South, I make a three quarter turn clockwise. I now face\_\_\_\_\_\_\_\_\_

Challenge

I start at North. Turn a quarter turn clockwise then a half turn anti-clockwise. I now face \_\_\_\_\_\_\_\_\_\_\_\_

I start at North. Turn three-quarters anti-clockwise and then a half turn clockwise. I now face\_\_\_\_\_\_\_\_\_\_\_

Reasoning

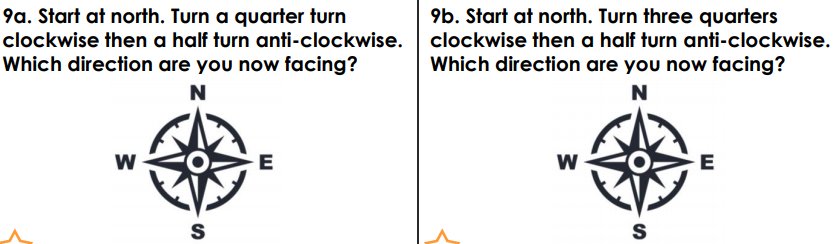
If I start at West and make a half turn, does it matter whether I turn clockwise or anti-clockwise? How do you know? ­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What two turns could I take to move from North to East?

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I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_

I face North, I make a quarter turn clockwise. I now face \_\_\_\_\_\_\_\_\_