

Homework/Extension

Step 1: Turns and Angles

National Curriculum Objectives:

Mathematics Year 3: (3G4a) [Recognise that angles are a property of a shape or a description of a turn](#)

Mathematics Year 3: (3G4b) [Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Decide if a statement is true or false. Using both clockwise and anti-clockwise with quarter and half turns written in words.

Expected Decide if a statement is true or false. Using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions.

Greater Depth Decide if a statement is true or false. Using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions. More than one turn is sometimes used with different starting points.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify the odd one out from a list of turns using both clockwise and anti-clockwise with quarter and half turns written in words.

Expected Identify the odd one out from a list of turns using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions.

Greater Depth Identify the odd one out from a list of turns using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions. More than one turn is sometimes used.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain which statement is correct using both clockwise and anti-clockwise with quarter and half turns written in words.

Expected Explain which statement is correct using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions.

Greater Depth Explain which statement is correct using both clockwise and anti-clockwise with quarter, half and three quarter turns written in words or fractions. More than one turn is used.

More [Year 3 Properties of Shape](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Turns and Angles

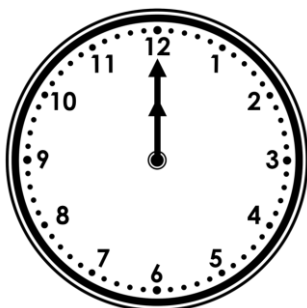
1. True or false?

1. Two half turns clockwise make a whole turn.	
2. Two quarter anti-clockwise turns make a half turn.	
3. Two quarter turns make a whole turn.	



VF
HW/Ext

2. If you start at 12 on the clock, which of these is the odd one out?



A. Two quarter turns clockwise

B. A quarter turn anti-clockwise

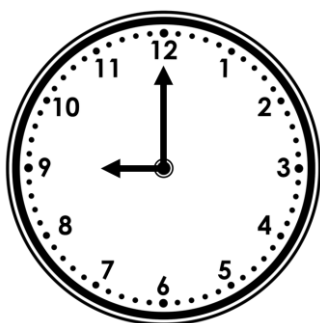
C. A half turn clockwise

D. A half turn anti-clockwise



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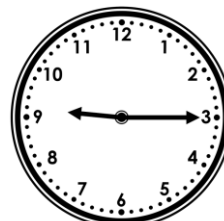
3. Joshua and Sally draw the new time on a clock after the minute hand has moved a quarter turn clockwise.



Joshua



Sally



Who is correct? Explain how you know.



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Turns and Angles

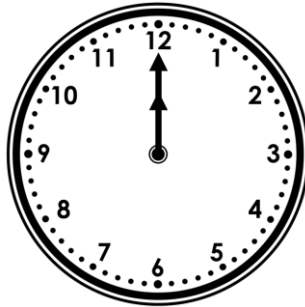
4. True or false?

1. If you start at 6 on the clock, a three quarter turn anti-clockwise is the same as a quarter turn clockwise.	
2. Four quarter turns clockwise are the same as a full turn.	
3. A $\frac{2}{4}$ turn clockwise is the same as a quarter turn anti-clockwise.	



VF
HW/Ext

5. If you start at 12 on the clock, which of these is the odd one out?



A. A quarter turn clockwise

B. $\frac{3}{4}$ quarter turn anti-clockwise

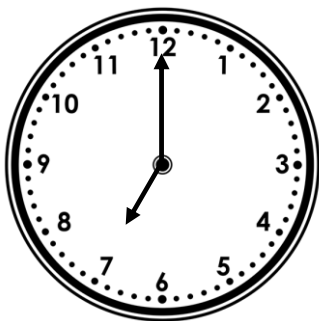
C. $\frac{1}{2}$ turn clockwise

D. $\frac{1}{4}$ quarter turn clockwise



VF
HW/Ext

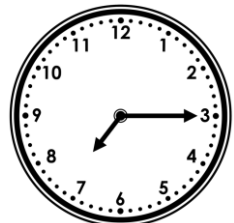
6. Katie and Owen draw the new time on a clock after the minute hand has moved a three quarter turn clockwise.



Katie



Owen



Who is correct? Explain how you know.



RPS
HW/Ext

Turns and Angles

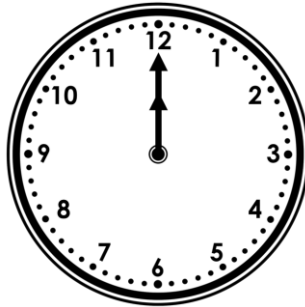
7. True or false?

1. A whole turn is the same as two quarter turns and a half turn clockwise.	
2. If you start at 3 on the clock, two quarter turns clockwise is the same as two quarter turns anti-clockwise.	
3. A $\frac{1}{4}$ turn clockwise is the same as a quarter turn anti-clockwise if you start at 9 on the clock.	



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8. If you start at 12 on the clock, which of these is the odd one out?



A. A half turn then a quarter turn clockwise

B. Three quarter turns clockwise

C. $\frac{1}{4}$ turn anti-clockwise

D. $\frac{1}{4}$ quarter turn clockwise



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9. Mina and Joseph draw the new time on a clock after the minute hand has moved a half turn clockwise followed by a quarter turn clockwise.



Mina



Joseph



Who is correct? Explain how you know.



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Homework/Extension

Turns and Angles

Developing

1. True; 2. True; 4. False, it is the same as a half turn.
2. B (the hands move to 9).
3. Sally is correct. The minute hand on Joshua's clock has turned a half turn clockwise.

Expected

4. 1. True; 2. True; 3. False, they are turns of different sizes.
5. C (the hands move to 6).
6. Katie is correct. The minute hand on Owen's clock has only turned a quarter turn clockwise.

Greater Depth

7. 1. True; 2. True; 3. False, they are moving in different directions.
8. D (the hands move to 3).
9. Joseph is correct. The minute hand on Mina's clock has turned more than a three quarter turn as the hands have moved 50 minutes.