#### LIFE/work balance



We have started a #LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the <u>survey</u> on our website and <u>share</u> it with your colleagues!



#### <u>Year 3 – Summer Block 3 – Properties of Shape – Turns and Angles</u>

#### **About This Resource:**

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

#### 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

More <u>Year 3 Properties of Shape</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



Year 3 – Summer Block 3 – Properties of Shape

# Step 1: Turns and Angles



#### **Introduction**

## Match the starting clock to the durations and the turns that the minute hand has made.

+ 30 mins



Half turn clockwise

Start



+ 45 mins



Quarter turn clockwise

+ 15 mins

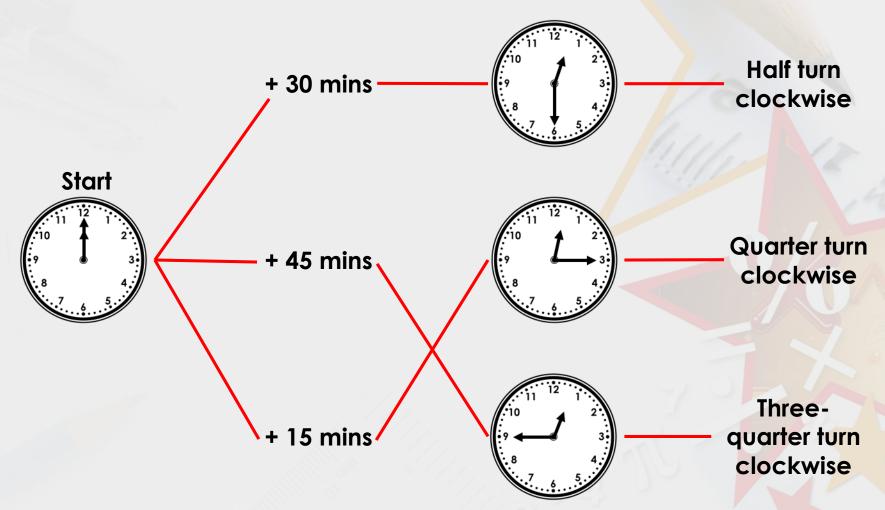


Threequarter turn clockwise



#### **Introduction**

Match the starting clock to the durations and the turns that the minute hand has made.





Start at east.

Turn three quarters clockwise.

Which direction are you now facing?

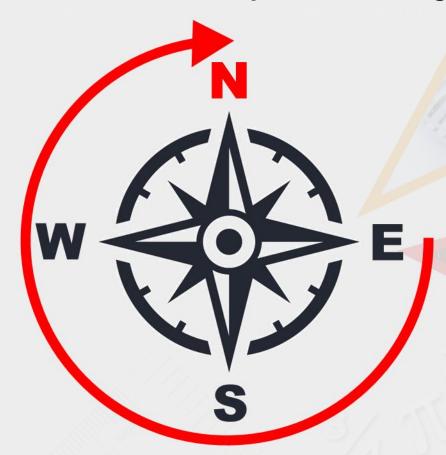




Start at east.

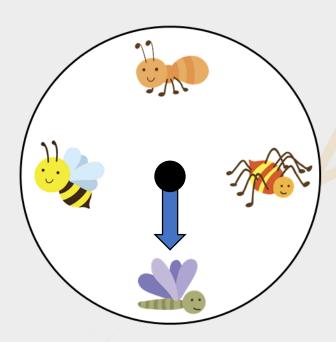
Turn three quarters clockwise.

Which direction are you now facing?



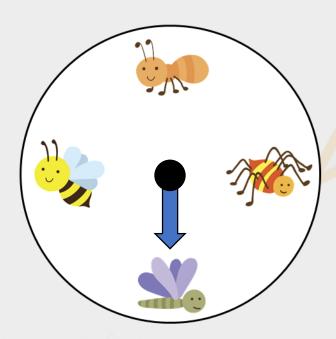


What turn does the spinner need to make to get from the dragonfly to the spider?





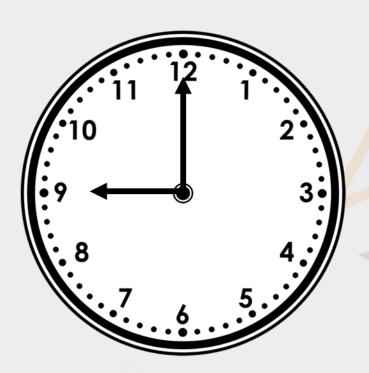
What turn does the spinner need to make to get from the dragonfly to the spider?



A quarter turn anti-clockwise or a three-quarter turn clockwise.



If the hour hand is turned a  $\frac{1}{4}$  turn, what time will it be?

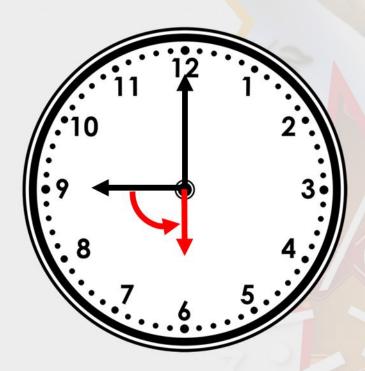




If the hour hand is turned a  $\frac{1}{4}$  turn, what time will it be?



12 o'clock



6 o'clock



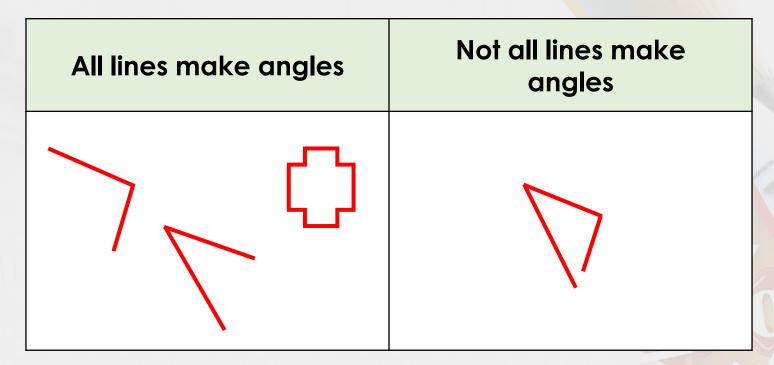
Sort these images into the table.

All lines make angles	Not all lines make angles





Sort these images into the table.





Iqbal is thinking of a shape.

He says,



The shape has 6 angles that are the same size.

Draw the shape that he is thinking of.



Iqbal is thinking of a shape.

He says,

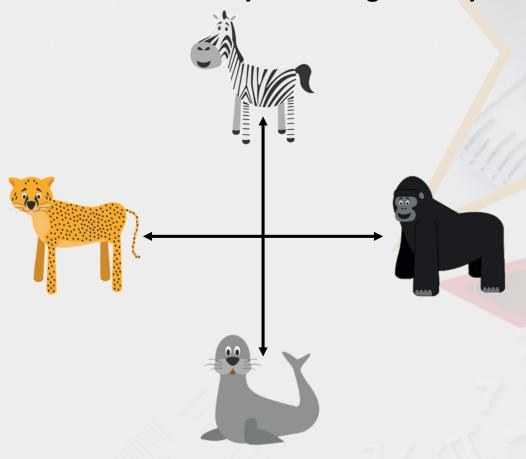


The shape has 6 angles that are the same size.

Draw the shape that he is thinking of.

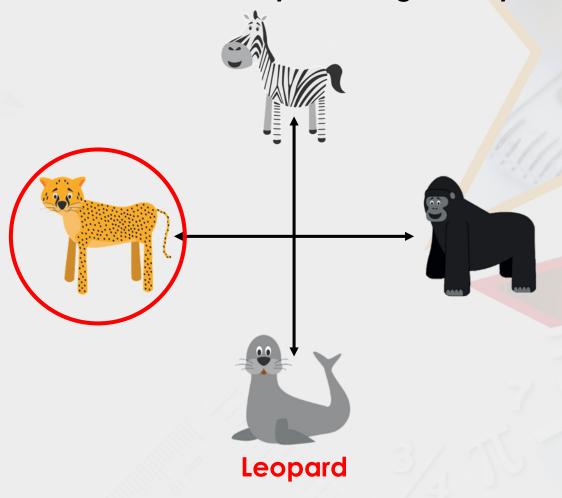


After a three quarter turn anti-clockwise, you are now facing the zebra. Which animal were you facing when you started?





After a three quarter turn anti-clockwise, you are now facing the zebra. Which animal were you facing when you started?

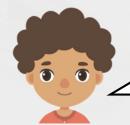




#### Reasoning 1

A compass needle has moved from south to north.

Jon says,



It has moved a half turn clockwise.



It has moved a half turn anticlockwise. Fiona says,



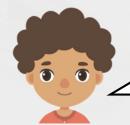
Who is correct? Explain how you know.



#### Reasoning 1

A compass needle has moved from south to north.

Jon says,



It has moved a half turn clockwise.



Fiona says,

It has moved a half turn anticlockwise.

Who is correct? Explain how you know.

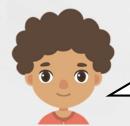
Both Jon and Fiona could be correct because...



#### **Reasoning 1**

A compass needle has moved from south to north.

Jon says,



It has moved a half turn clockwise.



Fiona says,

It has moved a half turn anticlockwise.



Who is correct? Explain how you know.

Both Jon and Fiona could be correct because a half turn in either direction from the same starting point will end up at north.

