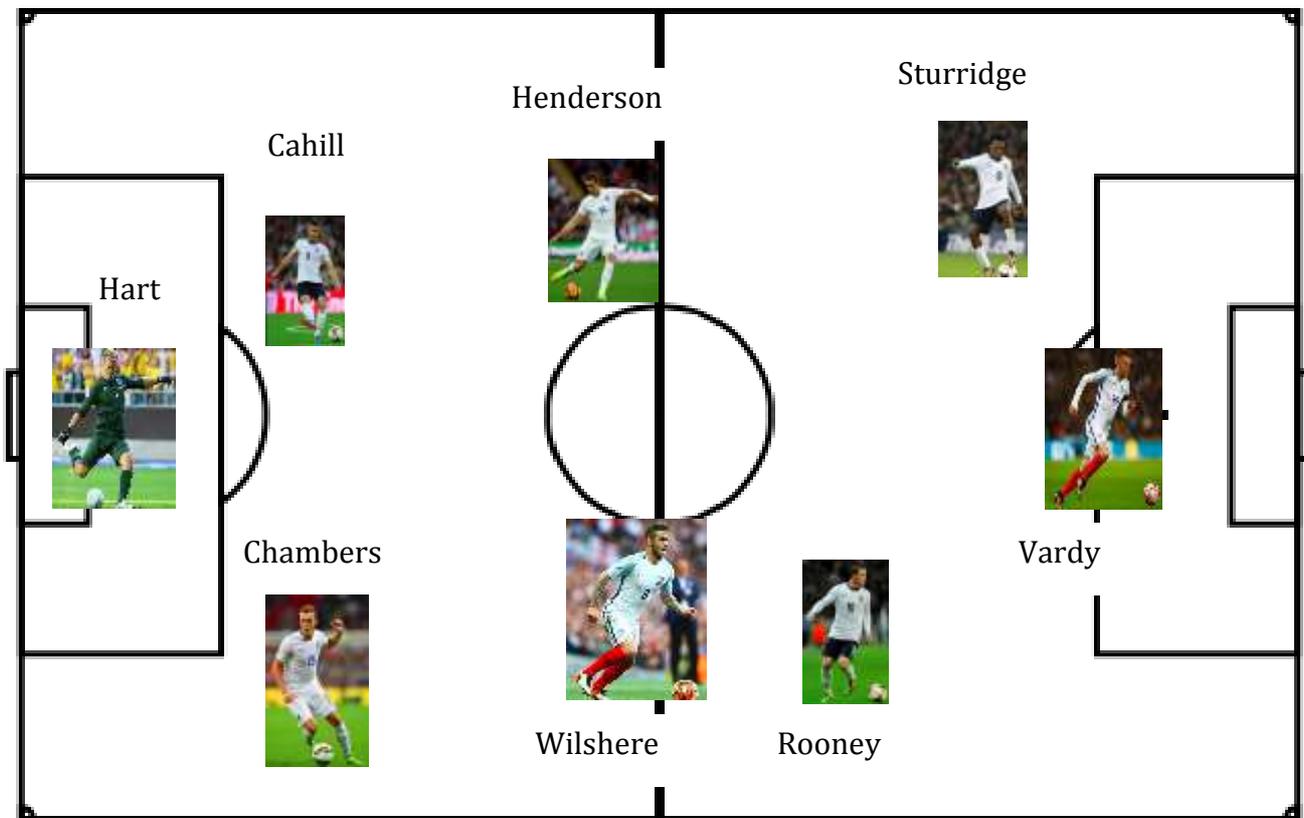


Football Angles:

The England football team had a few players missing but decided to have a kick about without them. Complete the following angle tasks, joining each football together to create the angles.



Red:

The ball is kicked to one player and passed to another. Draw the pathway of the ball and measure the angle:

- a) Joe Hart to Gary Cahill to Jordan Henderson = _____°
- b) Calum Chambers to Jordan Henderson to Jamie Vardy = _____°
- c) Wayne Rooney to Daniel Sturridge to Jamie Vardy = _____°
- d) Joe Hart to Jordan Henderson to Daniel Sturridge = _____°
- e) Gary Cahill to Calum Chambers to Wayne Rooney = _____°

Extension: Can you identify the types of angles above? Can you create a passing sequence between three players so that it creates a triangle? Can you measure the angles and see what they add up to?

Amber:

The ball is kicked to one player and passed to another. Draw the pathway of the ball, measure the angle and state the type of angle:

- a) Joe Hart to Gary Cahill to Jack Wilshere = _____°; _____
- b) Calum Chambers to Jordan Henderson to Daniel Sturridge = _____°; _____
- c) Wayne Rooney to Daniel Sturridge to Jamie Vardy = _____°; _____
- d) Joe Hart to Jordan Henderson to Daniel Sturridge = _____°; _____
- e) Gary Cahill to Joe Hart to Jack Wilshere = _____°; _____

Extension: Can you find a 3 player passing sequence that creates a right angle?

= _____, _____, _____

Green:

Find three different players that pass to each other to create an angle of:

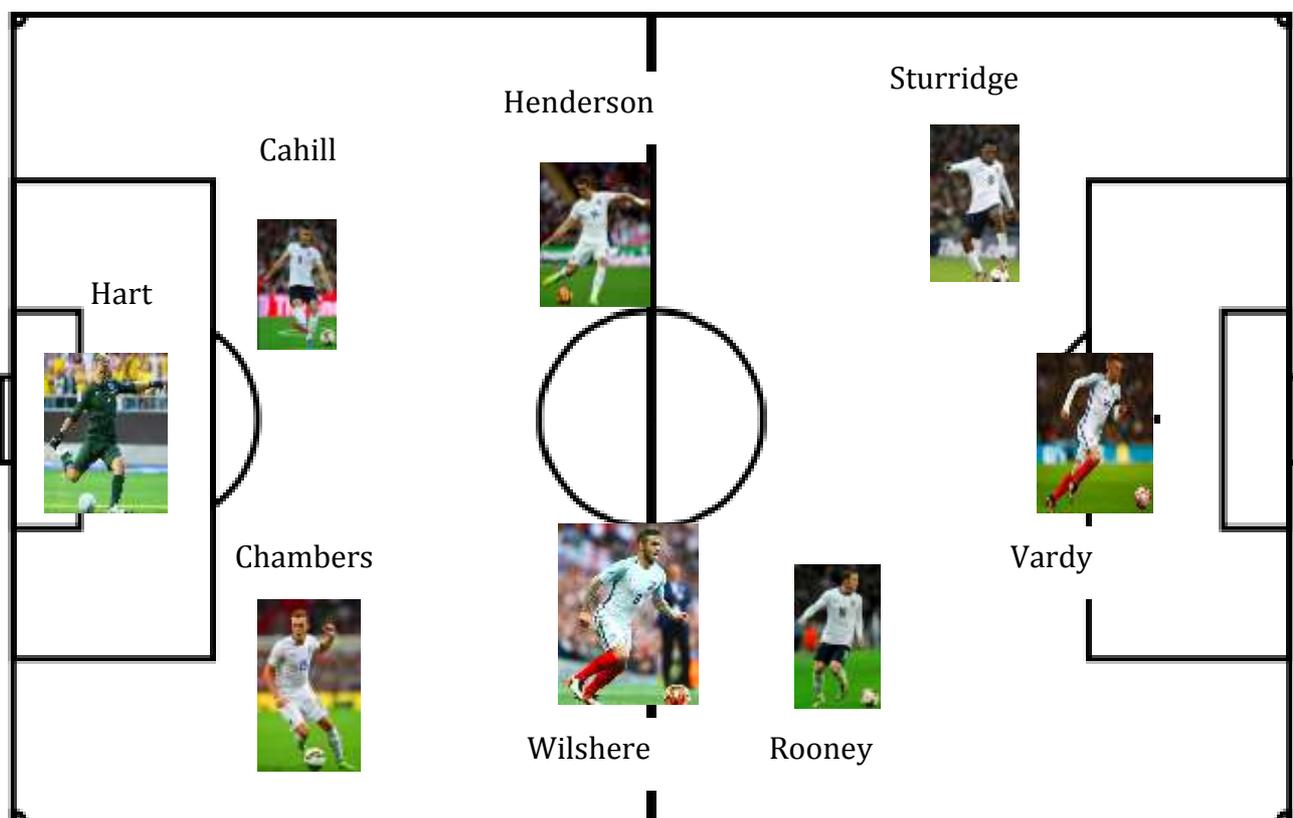
- a) 102° _____, _____, _____
- b) 138° _____, _____, _____
- c) 50° _____, _____, _____

Find four different players that pass to each other to create the two angles of:

- a) 50° & 70° _____, _____, _____, _____
- b) 70° & 100° _____, _____, _____, _____
- c) 47° & 28° _____, _____, _____, _____

Extension: Using the pitch below, can you work out the correct angle ranges for the following players to be able to score?

- a) Henderson passes to Sturridge then shoots, _____
- b) Wilshere passes to Rooney then shoots, _____
- c) Rooney passes to Vardy then shoots, _____
- d) Cahill passes to Wilshere who passes to Sturridge who shoots, _____



Answers:

Red:

- a) 160° (Obtuse)
- b) 100° (Obtuse)
- c) 50° (Acute)
- d) 84° (Acute)

Ext: above in brackets and any three players that create a triangle and add up to 180°

Amber:

- a) 100° Obtuse
- b) 124° Obtuse
- c) 51° Acute
- d) 53° Acute

Ext: Hart, Rooney, Sturridge creates a right angle.

Green: Possible answers, as could be many more!

- a) 102° = Wilshere to Rooney to Sturridge
- b) 138° = Chambers to Wilshere to Sturridge
- c) 50° = Henderson to Rooney to Sturridge
OR Wilshere to Cahill to Sturridge

- d) 50° & 70° = Rooney to Wilshere to Sturridge to Vardy
- e) 70° & 100° = Hart to Chambers to Henderson to Vardy
- f) 47° & 28° = Chambers to Cahill to Wilshere to Henderson

Ext: Draw the angles and measure them. Angle range to be able to score:

- a) $22^\circ - 37^\circ$
- b) $32^\circ - 40^\circ$
- c) $160^\circ - 183^\circ$
- d) $95^\circ - 110^\circ$

