Football Stats Real Life Problem Solving

National Curriculum Objectives:

Mathematics Y3: Interpret and present data using bar charts, pictograms and tables; Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

Mathematics Y4: Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs; Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Mathematics Y5: Solve comparison, sum and difference problems using information presented in a line graph; complete, read and interpret information in tables, including timetables.

Mathematics Y6: Interpret and construct pie charts and line graphs and use these to solve problems; calculate and interpret the mean as an average.

Differentiation:

Beginner Interpret a simple bar chart and answer 5 questions. Use simple information to fill in a table and complete a bar chart. Aimed at Year 3 Secure/Year 4 Emerging.

Easy Interpret a bar chart and answer 5 questions including comparing information. Use given information to fill in a table and complete a bar chart. Aimed at Year 4 Secure/Year 5 Emerging.

Tricky Use given information to fill in a table and complete a bar chart. Interpret a line graph and use it to fill in a table. Find totals of sets of five numbers and answer 3 questions. Aimed at Year 5 Secure/Year 6 Emerging.

Expert Fill in missing data on four pie charts and a table. Answer three questions. Use information in table to complete line graph. Find averages of sets of five numbers and answer 2 questions. Aimed at Year 6 Secure.

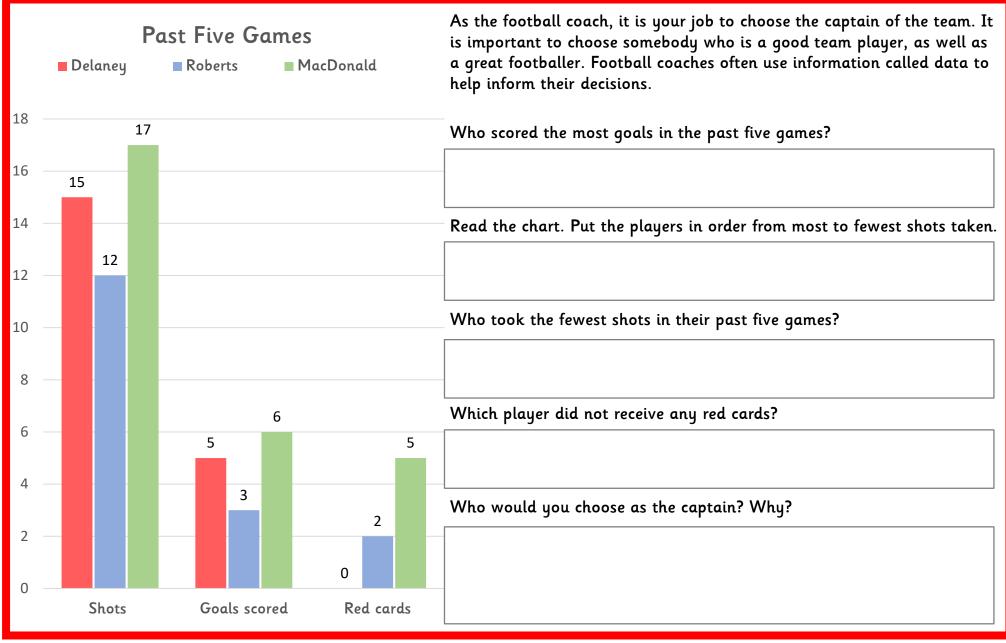
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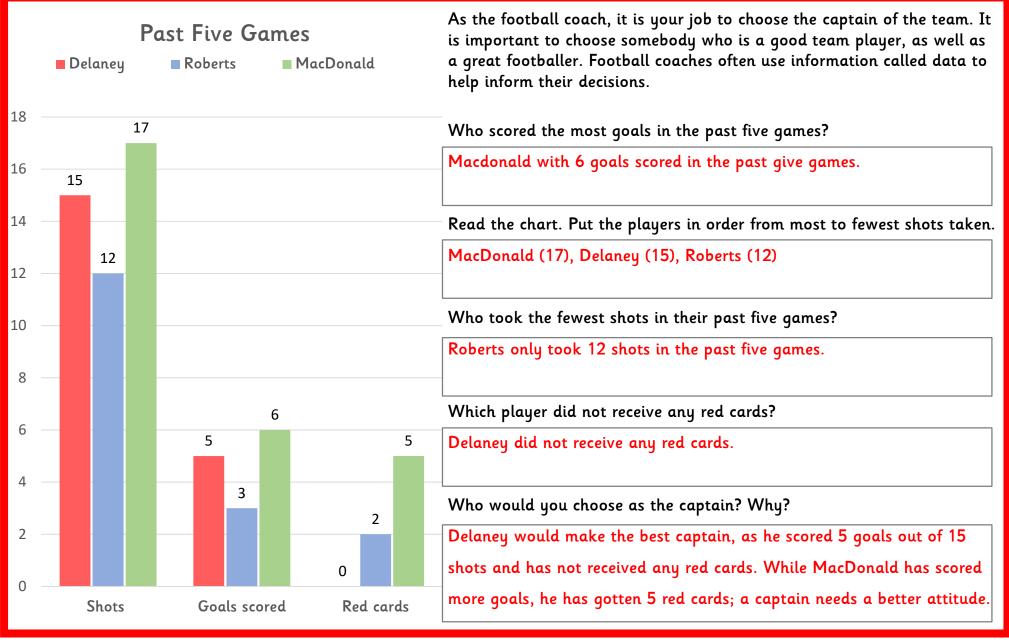
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Football Stats Real Life Problem Solving – Beginner





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Football Stats Real Life Problem Solving – Beginner ANSWERS

North FC 3 - 0 South United

In North FC's comfortable 3 - 0 victory last night, all three of their star strikers scored.

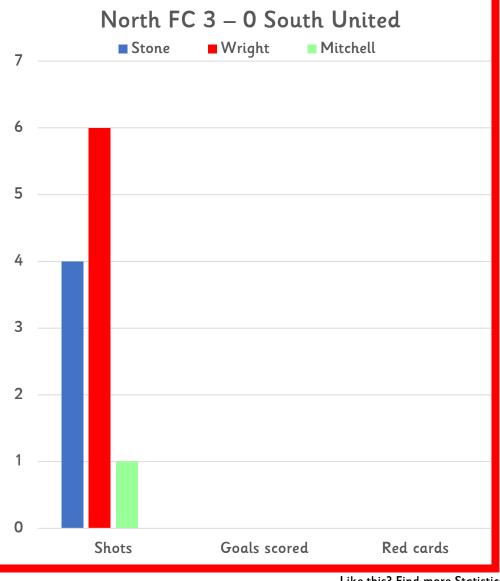
Stone won man of the match, and scored the first and second goals of the game, taking 4 shots in total.

Wright had two more shots than Stone, but his game turned sour after getting a red card in the second half.

Mitchell, who came on as a late substitute, scored with his only shot of the game.

	Stone	Wright	Mitchell
Shots	4	6	1
Goals scored			
Red cards			

Now use the information from the table to fill in the bar graph.



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Football Stats Real Life Problem Solving – Beginner

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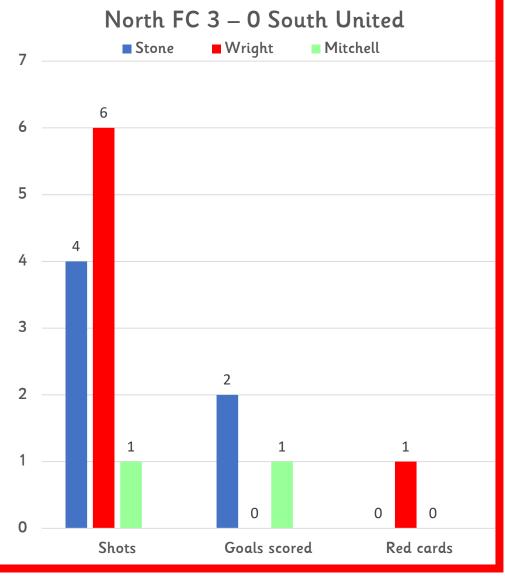
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	Stone	Wright	Mitchell
Shots	4	6	1
Goals scored	2	0	1
Red cards	0	1	0

Now use the information from the table to fill in the bar graph.

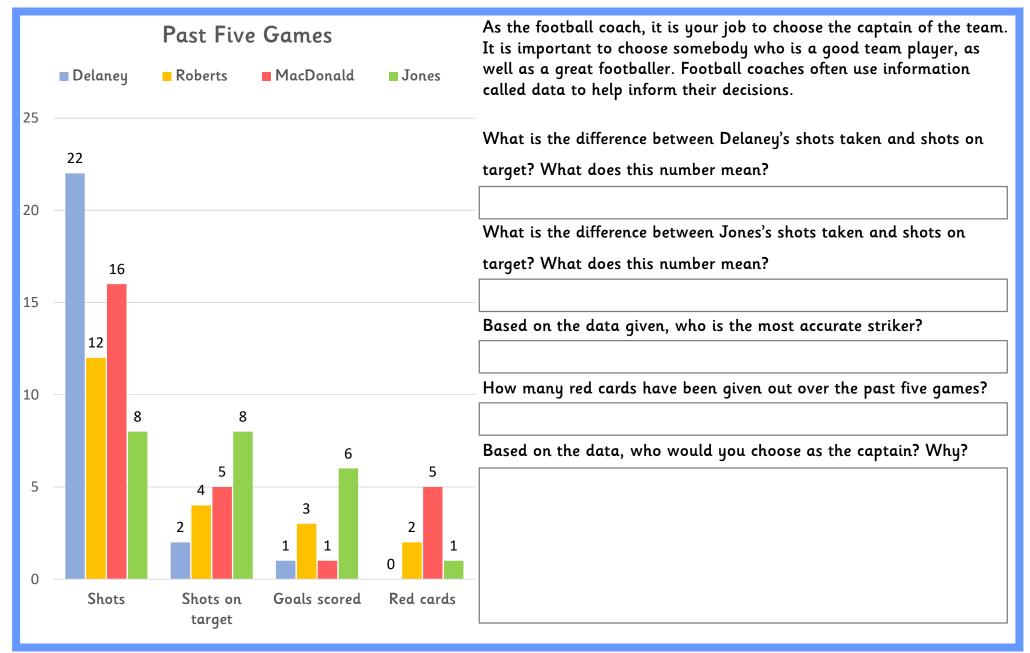


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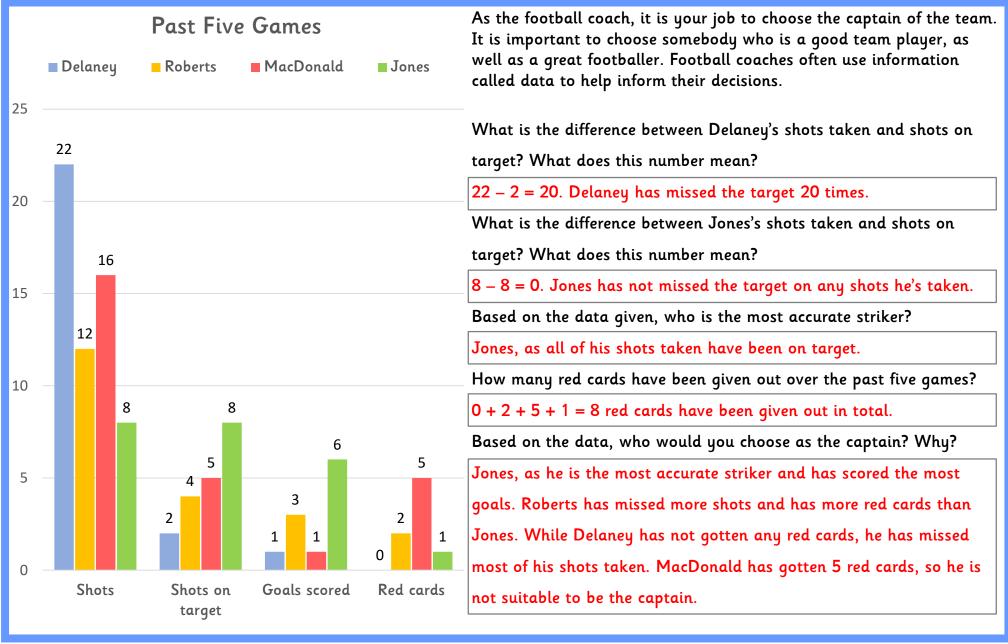
Football Stats Real Life Problem Solving – Beginner ANSWERS



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Football Stats Real Life Problem Solving – Easy





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Football Stats Real Life Problem Solving – Easy ANSWERS

West Bridge 4 – 1 East Athletic

West Bridge earned a comfortable victory last night, finishing 4 – 1 against East Athletic.

Xi started strong with goals in the first and eleventh minutes. All 8 of his shots found their target.

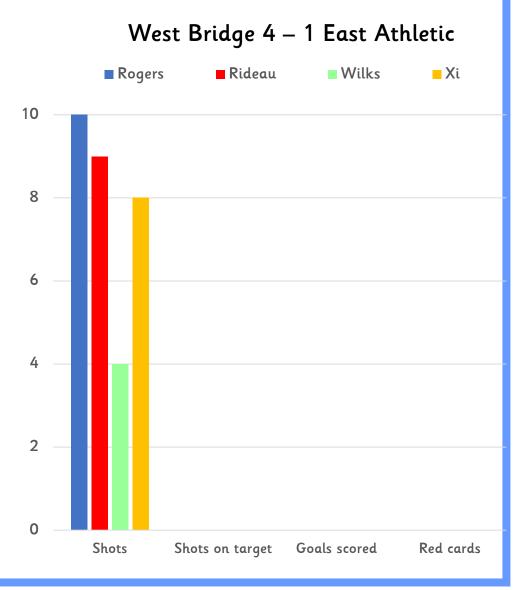
Rideau seemed to struggle throughout both halves, as only two of his 9 shots hit the target, neither scoring any goals.

Rogers managed an amazing ten shots, half of which hit the target. He scored a fantastic two goals in the second half.

Wilks managed 4 shots, two of which were on target before being sent off with Rideau. These were the only two red cards handed out in the game.

	Rogers	Rideau	Wilks	Xi
Shots				
Shots on target				
Goals scored				
Red cards				

Now use the information from the table to fill in the bar graph.



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Football Stats Real Life Problem Solving - Easy

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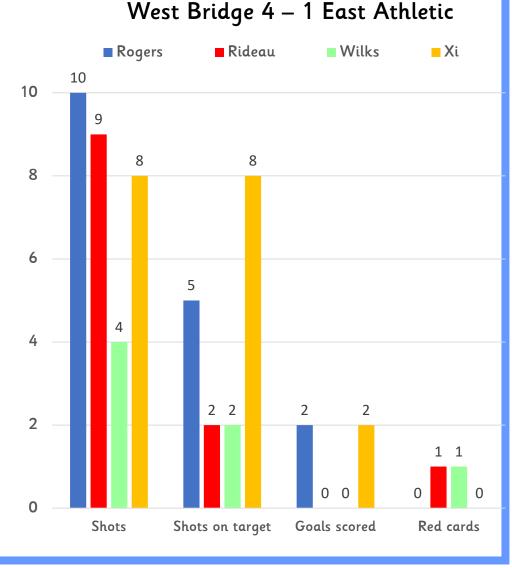
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	Rogers	Rideau	Wilks	Xi
Shots	10	٩	4	8
Shots on target	5	2	2	8
Goals scored	2	0	0	2
Red cards	0	1	1	0

Now use the information from the table to fill in the bar graph.



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Football Stats Real Life Problem Solving - Easy ANSWERS

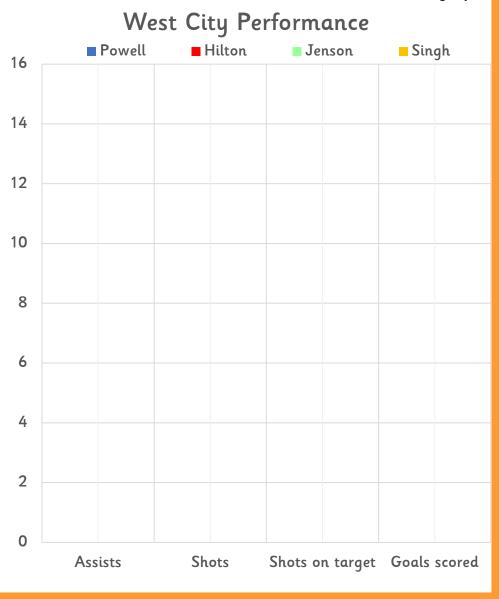
West City 5 – 0 North River

West City rose to victory over North River this weekend, thanks to an outstanding performance by Singh, who scored a critical two goals in the first six minutes of play, assisted by Jenson and Hilton. All eleven of his shots fell on target.

Powell gave North River reason to worry with an incredible 10 of his 15 shots hitting the target. He scored a quick goal just after half time, assisted by Singh.

Hilton and Jenson, the dynamic duo, were responsible for the final two goals of the game, with Hilton scoring both goals and Jenson assisting. A great result for Hilton, as his previous four shots failed to hit the target. Jenson managed seven shots throughout the game, but they all fell short.

	Powell	Hilton	Jenson	Singh
Assists				
Shots				
Shots on target				
Goals scored				



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Football Stats Real Life Problem Solving - Tricky



Now use the information from the table to create a bar graph.

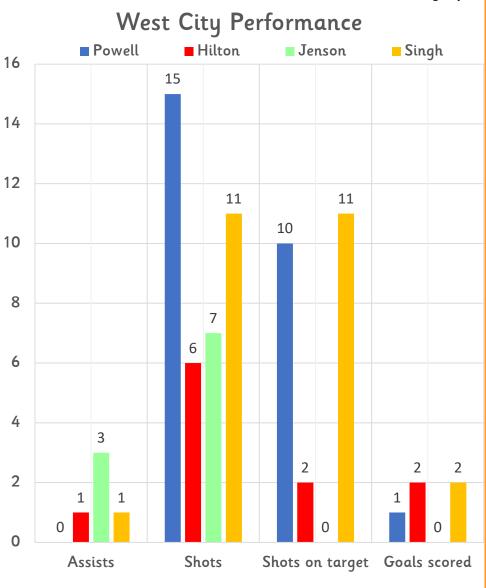
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	Powell	Hilton	Jenson	Singh
Assists	0	1	3	1
Shots	15	6	7	11
Shots on target	10	2	0	11
Goals scored	1	2	0	2



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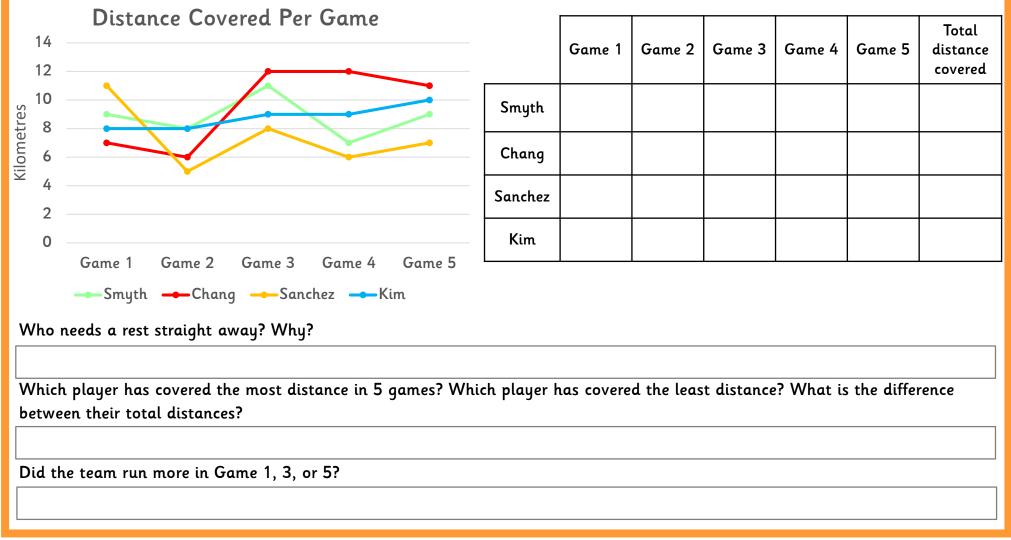
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Football Stats Real Life Problem Solving – Tricky ANSWERS

Now use the information from the table to create a bar graph.

There is an important tournament coming up for your team. They have been working hard on the pitch, and if a player covers a total distance of more than 10km in one game, they increase their chance of injury. You can't afford to lose your best players before the Cup, so you must decide who needs to rest. Use the line graph to help you fill in the table and find the total distance each player has covered.



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Football Stats Real Life Problem Solving - Tricky

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Chang because he has run the farthest overall and has run more than 10km in his past three games.

Which player has covered the most distance in 5 games? Which player has covered the least distance? What is the difference between their total distances?

Chang (48) – Sanchez (37) = a difference of 11km

Did the team run more in Game 1, 3, or 5?

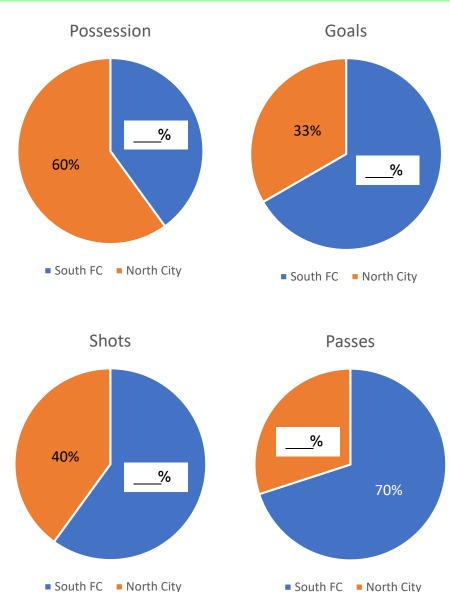
Game 1 = 35, Game 3 = 40, Game 5 = 37. They ran the most in Game 3.

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Football Stats Real Life Problem Solving – Tricky ANSWERS



Fill in the missing percentages in each pie chart.

Now use the data from the pie charts to fill in the following table. Round to the nearest whole number if necessary.

	South FC	North City	Total
Possession %			100%
Shots			5
Goals			3
Passes			200

Who scored the most goals? How many more did they score?

Who made the most passes? How many more did they make?

A football match lasts for 90 minutes. How many minutes did

each team have possession of the ball for throughout the game?

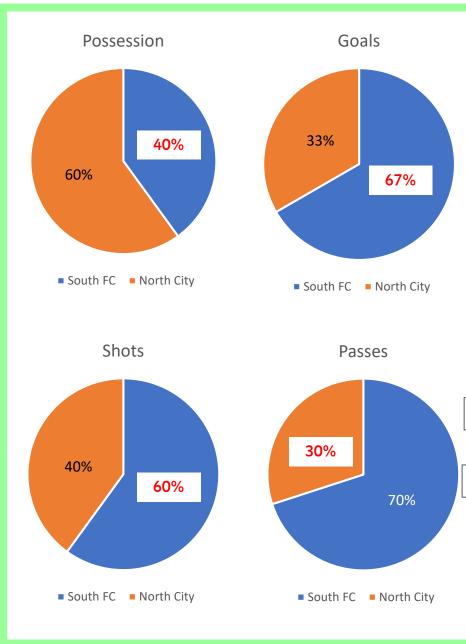
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Football Stats Real Life Problem Solving – Expert

South FC North City



Fill in the missing percentages in each pie chart.

Now use the data from the pie charts to fill in the following table. Round to the nearest whole number if necessary.

	South FC	North City	Total
Possession %	40%	60%	100%
Shots	3	2	5
Goals	2	1	3
Passes	140	60	200

Who scored the most goals? How many more did they score?

South FC scored two goals, one more than North City.

Who made the most passes? How many more did they make?

South FC made 140 passes, 80 more than North City.

A football match lasts for 90 minutes. How many minutes did

each team have possession of the ball for throughout the game?

South FC had possession for 36 minutes. North City had possession for 54 minutes.

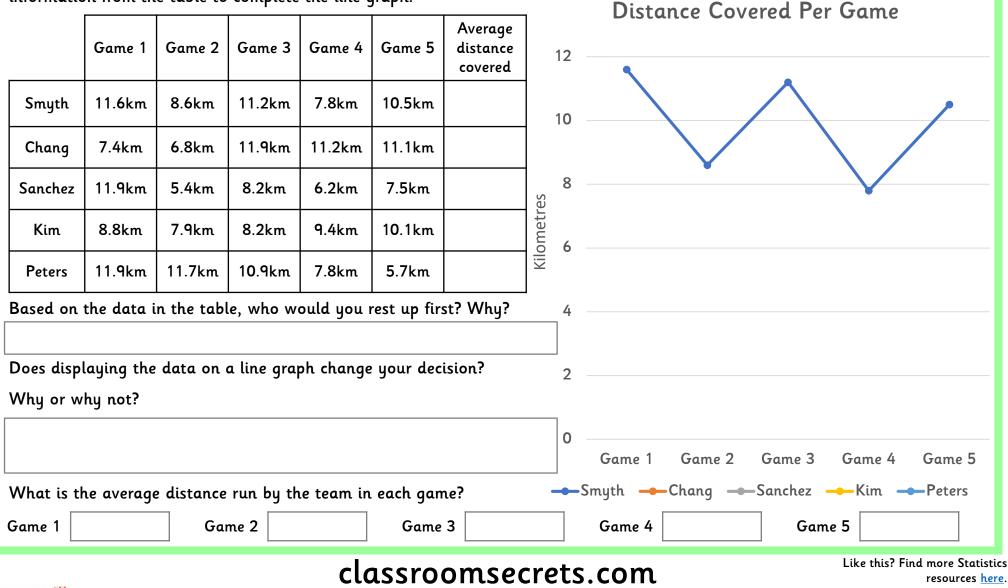
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Football Stats Real Life Problem Solving – Expert ANSWERS

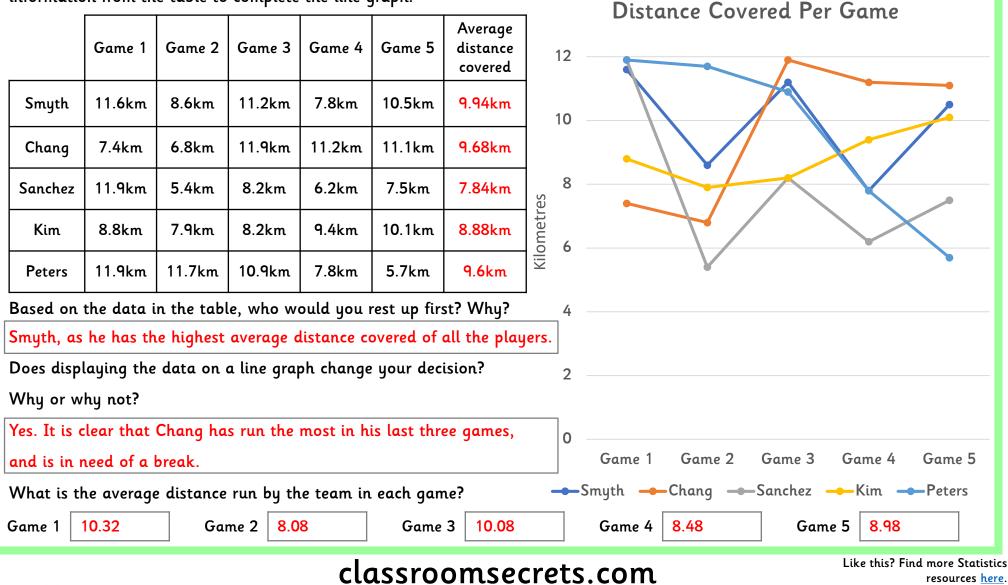
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Football Stats Real Life Problem Solving – Expert

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Football Stats Real Life Problem Solving – Experts ANSWERS

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