

Problem Solving Week 14

Foundation:

Fred, Jim and Colin are playing a game.

They are the only 3 players in the game.

The probability of each person winning the game is shown below

Name	Fred	Jim	Colin
Probability of winning	$2x$	$7x$	x

If 300 games were played, how many more games would you expect Jim to win than Colin?

Higher:

Circle A has area $40\pi cm^2$.

Circle B has circumference $6\sqrt{10}\pi cm$.

Find the ratio of the length of the radius of Circle A to the length of the radius of Circle B in the form $n:1$.