

11 Solve the simultaneous equations:	12 Hannah is going to play one game of chess and one game of backgammon.
5x - 2y = 25 3x - 4y = 22	The probability she will win the game of chess is 0.7
x = 4	The probability she will win the game of backgammon is 0.65
y = -2.5	Work out the probability that Hannah will win both games.
	0.455
13 The size of each exterior angle in a regular polygon is 18°	14 Write 180 as a product of its prime factors.
Work out how many sides the polygon has.	2 x 2 x 3 x 3 x 5
20	
15 Work out the mean number of points per game.	16 There are 25 students in a class.
Points Frequency	Two students are going to be selected to receive a prize.
0 9 10 11	How many different pairs of students could be selected?
20 18	300
30 $\frac{7}{15.1}$ points	
17 Find the value of $\left(\frac{64}{125}\right)^{-\frac{1}{3}}$	18 A shop decreases prices by 12% and then by a further 20%.
<u>5</u> 4	What is the total percentage reduction in the prices?
4	29.6%
19 The weights of 11 pigs, in kg, are recorded below.	20 ACO = 33 ^o Angles in an isosceles triang
47 55 <u>59</u> 65 69 <u>71</u> 72 74 <u>80</u> 81 84 Draw a box plot for this information.	A O equal AOC = 114° Angles in a triangle sum to
40 50 60 70 80 90 Weight (kg)	$COB = 66^{\circ}$ Angles in a straight line sum to 180° Find the size of angle ABC. Angles in a triangle sum to 1 You must show all your working. $ABC = 24^{\circ}$
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