

Year Ten Advanced Homework - Term 4, Sheet 6

Name: _____

Due Date: _____

1. List the sample space for

a) tossing a coin three times

2. Complete the following Karnaugh Graph with the given information.

The probability a student does Maths A is 0.84.

The probability a students does Maths B is 0.35

The probability a student does not do Maths is 0.1

| | | | |
|----|---|----|---|
| | A | A' | |
| B | | | |
| B' | | | |
| | | | 1 |

3. A bag contains 15 marbles. 7 are red, 5 are blue and the rest are yellow. If two marbles are selected without replacement find:

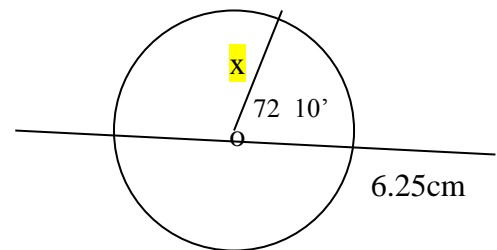
a) $\Pr(RR)$

b) $\Pr(RY)$

c) $\Pr(R \cap Y)$

d) $\Pr(R \cup Y)$

4. Find the radius of this circle.



5. State the co-ordinates of the x and y-intercepts for

a $y = (x + 2)(3x - 2)$

b $y = x^2 - x + 12$

c $y = x^2 - 16$

6, Use the quadratic formula to find the x intercepts for $y = 2x^2 + 3x - 5$