

Solution Sheet 9, May 28, 2012

Answers

1.

$$\frac{20 \times \frac{66}{100} + 30 \times \frac{56}{100}}{50} = \frac{3}{5} = 60\%$$

- 2. Expand $(1 + x + x^2 + x^3)^5$ and take the coe cient of x^{12}
- 3. (a) Each slice of the clock is 30 . Hence $\angle XOY = 30n$ for $n = 0;1;\cdots 11$. Triangle XYO is isosceles, so $\angle XYO = \angle YXO = \frac{j180-30nj}{2}$.
 - (b) Let r be the \setminus