Home Work 1

(Probability and Statistic)

1) $250 C 2$

2) ②②②②② $= 5 \times 2 = \boxed{10}$

3) ① ② ② ② ① $= 1 \times 2 \times 2 \times 2 \times 1 = \boxed{8}$

4) $30 C 3 = \boxed{4060}$

5) $6 C 3 = \boxed{20}$

6) 36 possible outcomes $\longrightarrow$ (1,6), (6,1)
(2,5), (5,2)
(3,4), (4,3)

$P(A) =$ in a single tr') $\frac{6}{36} = \frac{1}{6}$

$P(\acute{A}) = \frac{5}{6}$

three times $= \frac{5}{6} \times \frac{5}{6} \times \frac{5}{6} = \frac{125}{216}$

P (at least one) $= P(A)$ $1 - \frac{125}{216} = \frac{91}{216} = \boxed{.42}$

7) total numbers are $6C3 = 20$ <u>but</u> 2 books
so, $5 C 2 \times 1 = \boxed{10}$

8)   (25)

A)

2 Ahmed	2 C1
2 Sally	2 C1
2 Maryam	2 C1
2 Youses	2 C1
2 IBrahim	2 C1

العدد المتبقى ٢٠

$32 \times 20C9 = 5350720$

الباقى من 25

B

| 2C2 |
| 2C2 |
| 2C2 |
| 2C2 |
| 2C2 |

$1 \times 15C4 = \boxed{1386}$