

EXTRA PRACTICE

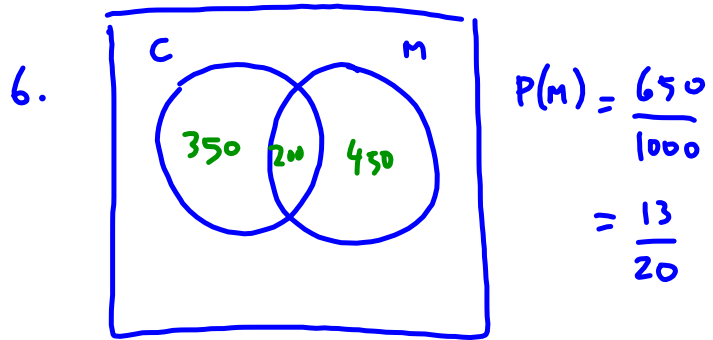
1. 0

2. 3:1

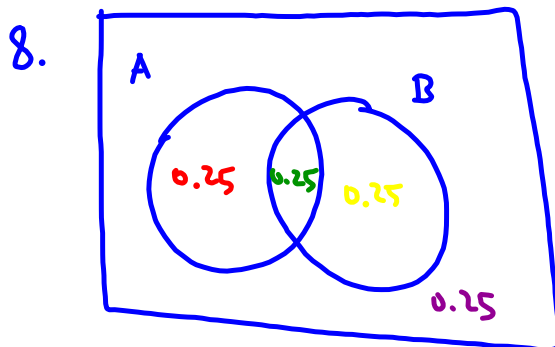
3. $\frac{5}{11}$

4. $\frac{4}{21}$

5. 2:3



7. $P((A \cup B)') = 0.2$



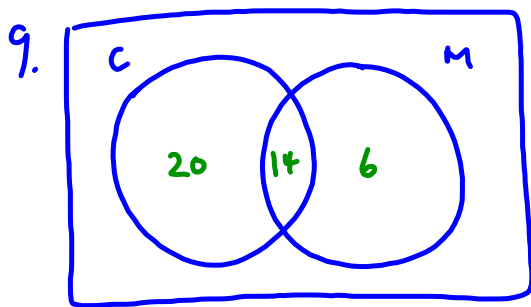
$P(A|B) = 0.25$

or

$P(A|B) = P(A) - P(A \cap B)$

$= 0.5 - 0.25$

$= 0.25$



$$P(M \setminus C) = \frac{6}{40} = \frac{3}{20}$$

10. $P(B \setminus A) = 0.2$

11. "Ten arrange ten"

$$10 \times 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 3\,628\,800$$

$$= 10! \leftarrow \text{factorial}$$

12. $2 \times 10 = 20$

13. $\frac{12 \times 11}{2} = \frac{132}{2}$

"Twelve choose 2"

14. $11 \times 10 \times 9 = 990$