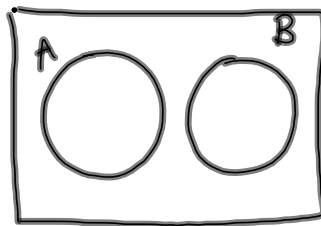


3.4: Venn Diagrams + Probability

Venn Diagrams \Rightarrow same as
chp. 1

Probability $\Rightarrow \frac{\text{fav.}}{\text{total}}$

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example

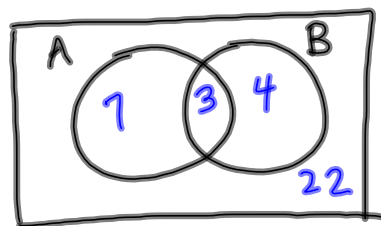


Mutually
Exclusive

$$P(A \cup B) = P(A) + P(B)$$

$$\text{prob of } A \text{ or } B = \text{prob of } A + \text{prob of } B$$

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$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$\text{Total} = 36$$

$$\Rightarrow \frac{10}{36} + \frac{7}{36} - \frac{3}{36}$$

$$\Rightarrow \frac{14}{36}$$

Worksheet

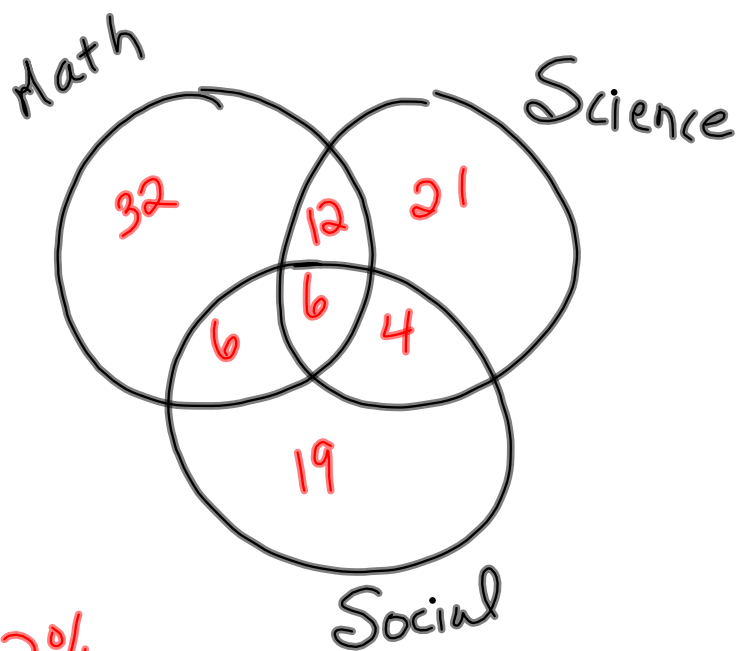
1. Total \Rightarrow 86

2. Country \Rightarrow 33

3. $\frac{\text{Rap}}{\text{Total}} \Rightarrow \frac{43}{86} = 50\%$

4. Country or rock = $\frac{62}{86} = 72\%$

5. Country and rock $\Rightarrow \frac{15}{86} = 17\%$



6. 32%

7. 21%

8. 18%

9. 32%

10. 57%

11. 81%

12. 25%