Canada

Capital: Ottawa
Population: 35,295,770
Total area: 9,970,610 km^2

The United Kingdom

Capital: London
Population: 63,705,000
Total area: 242,900 km^2

Japan

Capital: Tokyo
Population: 127,180,000
Total area: 377,873 km^2

The United States

Capital: Washington, District of Columbia
Population: 317,706,000
Total area: 9,629,090 km^2

France

Capital: Paris
Population: 65,844,000
Total area: 551,500 km^2

Germany

Capital: Berlin
Population: 80,619,000
Total area: 357,022 km^2

Brazil

Capital: Brasília
Population: 201,032,714
Total area: 8,514,880 km^2

Italy

Capital: Rome
Population: 59,943,933
Total area: 301,318 km^2

South Korea

Capital: Seoul
Population: 50,219,669
Total area: 99,538 km^2

Australia

Capital: Canberra
Population: 23,414,552
Total area: 7,741,220 km^2

The People's Republic of China

Capital: Beijing
Population: 1,363,350,000
Total area: 9,640,820 km^2

Israel

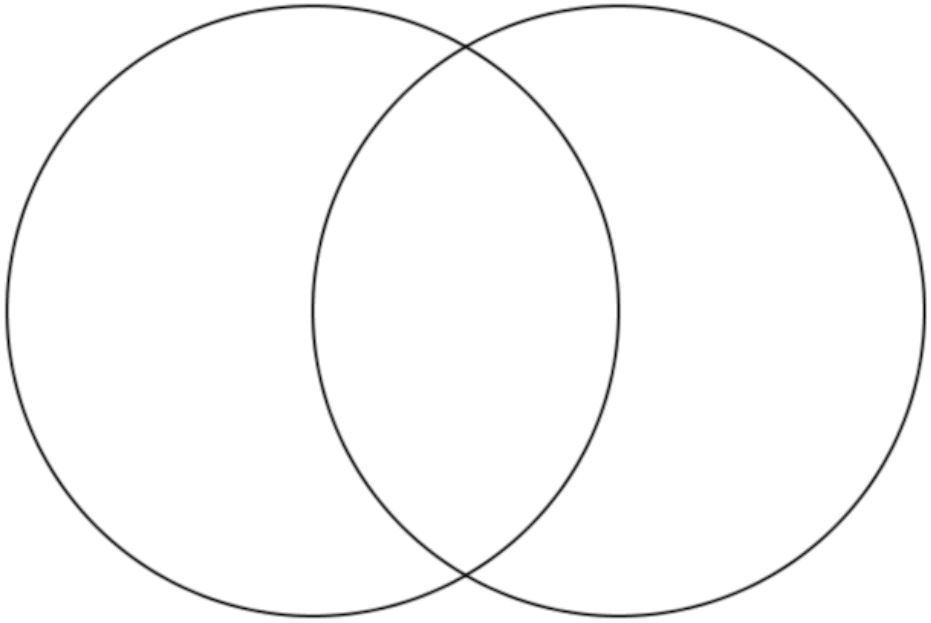
Capital: Jerusalem
Population: 8,146,300
Total area: 22,145 km^2

Flag Venn Diagrams

The twelve most well-known flags in the world are shown opposite.

1. Write the **names of the countries** in the appropriate place in the Venn diagram below.

Contains Red ***Contains Blue***



2. Use the information below and your Venn diagram to answer the questions.

R = Red B = Blue R' = Not R B' = Not B $R \cap B$ means both R and B $R \cup B$ means either R or B

a) $P(R) =$
(The probability of getting a red flag)
b) $P(B) =$
(The probability of getting a blue flag)
c) $P(R \cap B) =$
(The probability of getting a flag which is red and blue)
d) $P(R \cup B) =$
(The probability of getting a flag which is red or blue)
e) $P(R') =$
(The probability of getting a flag which is not red)
f) $P(R \cap B') =$
(The probability of getting a flag which is red, but not blue)
g) $P(R' \cap B') =$
(The probability of getting a flag which is not red, but also not blue)

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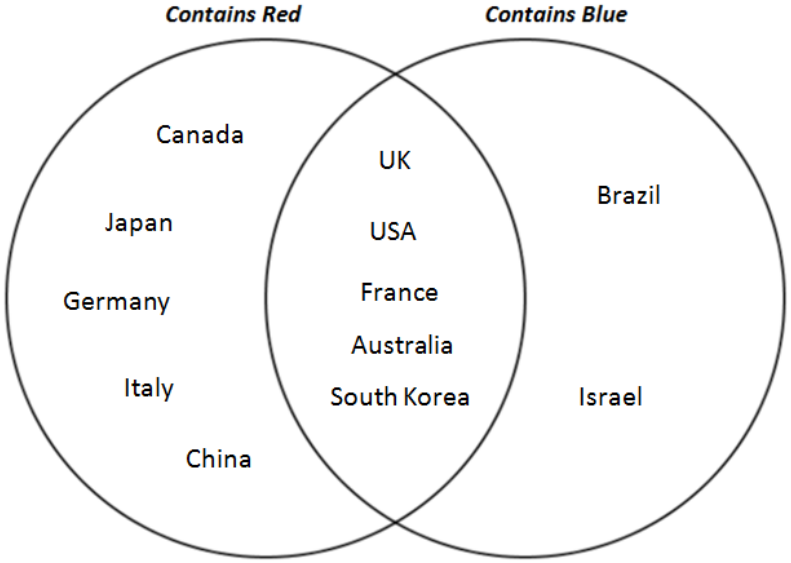
Flag Venn Diagrams SOLUTIONS

The twelve most well-known flags in the world are shown opposite.

1. Write the **names of the countries** in the appropriate place in the Venn diagram below.



2. Use the information below and your Venn diagram to answer the questions.

R = Red B = Blue R' = Not R B' = Not B $R \cap B$ means both R and B $R \cup B$ means either R or B

a) $P(R) = \frac{10}{12} = \frac{5}{6}$

(The probability of getting a red flag)

b) $P(B) = \frac{7}{12}$

(The probability of getting a blue flag)

c) $P(R \cap B) = \frac{5}{12}$

(The probability of getting a flag which is red and blue)

d) $P(R \cup B) = \frac{12}{12} = 1$

(The probability of getting a flag which is red or blue)

e) $P(R') = \frac{2}{12} = \frac{1}{6}$

(The probability of getting a flag which is not red)

f) $P(R \cap B') = \frac{5}{12}$

(The probability of getting a flag which is red, but not blue)

g) $P(R' \cap B') = \frac{0}{12} = 0$

(The probability of getting a flag which is not red, but also not blue)