Missing ~~Compound~~ Probabilities Extra Practice

Find the missing probabilities:

1. M&Ms come in these color distributions:

Green: $\frac{1}{10}$ Red: $\frac{1}{5}$ Yellow: $\frac{1}{5}$ Brown: $\frac{3}{10}$ Blue: $\frac{1}{20}$ Orange: ?

$\frac{1}{10}+\frac{1}{5}+\frac{1}{5}+\frac{3}{10}+\frac{1}{20}=\frac{2}{20}+\frac{4}{20}+\frac{4}{20}+\frac{6}{20}+\frac{1}{20}=\frac{17}{20}$

$1-\frac{17}{20}$

$\frac{20}{20}-\frac{17}{20}=\boxed{\frac{3}{20}}$

2. The probability of weather on July 4th is- Clouds: $\frac{3}{20}$ Rain: $\frac{1}{10}$ Sunshine: ?

$\frac{3}{20}+\frac{2}{20}=\frac{5}{20}$

$1-\frac{5}{20}$

$\frac{20}{20}-\frac{5}{20}=\frac{15}{20}$

$\frac{15}{20}=\boxed{\frac{3}{4}}$

3. The probability of skiing on:

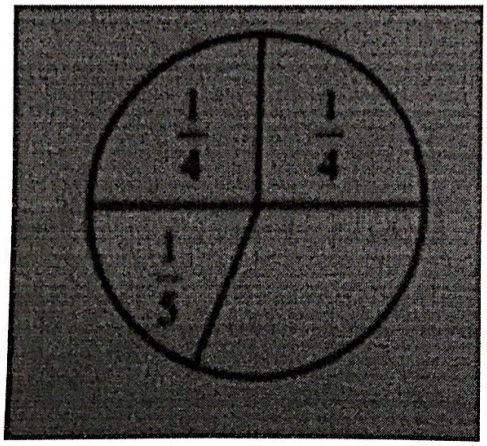
Monday: $\frac{1}{9}$ Tuesday: $\frac{2}{9}$ Wednesday: $\frac{1}{18}$ Thursday: ? Friday: $\frac{1}{18}$ Saturday: $\frac{1}{3}$ Sunday: $\frac{1}{6}$

$\frac{1}{9}+\frac{2}{9}+\frac{1}{18}+\frac{1}{18}+\frac{1}{3}+\frac{1}{6}=\frac{2}{18}+\frac{4}{18}+\frac{1}{18}+\frac{1}{18}+\frac{6}{18}+\frac{3}{18}=\frac{17}{18}$

$1-\frac{17}{18}$

$\frac{18}{18}-\frac{17}{18}=\boxed{\frac{1}{18}}$

4.



$\frac{1}{4}+\frac{1}{4}+\frac{1}{5}=\frac{5}{20}+\frac{5}{20}+\frac{4}{20}=\frac{14}{20}$

$1-\frac{14}{20}$

$\frac{20}{20}-\frac{14}{20}=\frac{6\div2}{20\div2}=\boxed{\frac{3}{10}}$

5. The ages of Senators from 1989:

<40: ? 40-49: $\frac{3}{10}$ 50-59: $\frac{9}{25}$ 60-69: $\frac{11}{50}$ 70-79: $\frac{1}{20}$ >80: $\frac{1}{50}$

$\frac{3}{10}+\frac{9}{25}+\frac{11}{50}+\frac{1}{20}+\frac{1}{50}=\frac{30}{100}+\frac{36}{100}+\frac{22}{100}+\frac{5}{100}+\frac{2}{100}=\frac{95}{100}$

$1-\frac{95}{100}$

$\frac{100}{100}-\frac{95}{100}=\frac{5\div5}{100\div5}=\boxed{\frac{1}{20}}$