Probability of an Event

Total points = 34

1. a. P(two heads) ✓
   $= \frac{3}{8}$ ✓
   b. P(at least two heads) ✓
   $= \frac{4}{8}$ ✓
   $= \frac{1}{2}$ ✓
   c. P(no tail) ✓
   $= \frac{1}{8}$ ✓
2. a. P(sum of five) ✓
   $= \frac{4}{36}$ ✓
   $= \frac{1}{9}$ ✓
   b. P(sum is prime) ✓
   $= \frac{15}{36}$ ✓
   $= \frac{5}{12}$ ✓
   c. P(sum greater than 9)✓
   $= \frac{6}{36}$ ✓
   $= \frac{1}{6}$ ✓
   d. P(not a double) ✓
   $= \frac{30}{36}$ ✓
   $= \frac{5}{6}$ ✓
3. a. P(a red number card) ✓
   $= \frac{18}{52}$ ✓
   $= \frac{9}{26}$ ✓
   b. P(not a heart) ✓
   $= \frac{39}{52}$ ✓
   $= \frac{3}{4}$ ✓
   c. P(a black ace) ✓
   $= \frac{2}{52}$ ✓
   $= \frac{1}{26}$ ✓
4. a. P(letter M) ✓
   $= \frac{2}{11}$ ✓
   b. P(comes from the first half of the alphabet) ✓
   $= \frac{8}{11}$ ✓
   c. P(letter C) ✓
   $= \frac{1}{11}$ ✓

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