Probability Worksheet

The Odds Are Good, But the Goods Are Odd

A die has six sides with numbers 1 - 6.

1. What is the probability of rolling a die and getting a 6?
   $\frac{1}{6}$

2. What is the probability of rolling a die and getting an odd number?
   $\frac{3}{6} = \frac{1}{2}$

3. What is the probability of rolling two dice and getting a 6?
   $2 \times \frac{1}{6} = \frac{1}{3}$

4. What is the probability of rolling two dice and getting two 6s?
   $\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$

5. What is the probability of rolling a die and getting a 5 or a 3?
   $\frac{2}{6} = \frac{1}{3}$

6. What is the probability of rolling three dice and getting three 6s?
   $\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} = \frac{1}{216}$

7. What is the probability of rolling three dice and getting three 6s or three 5s?
   $\frac{1}{216} + \frac{1}{216} = \frac{1}{108}$

8. What is the probability of rolling three dice and getting three 6s, three 5s, or three 4s?
   $\frac{1}{216} + \frac{1}{216} + \frac{1}{216} = \frac{3}{216} = \frac{1}{72}$

9. What is the probability of rolling three dice and getting three 3s or three 2s or three 1s?
   $\frac{1}{216} + \frac{1}{216} + \frac{1}{216} = \frac{3}{216} = \frac{1}{72}$

10. What is probability of rolling three dice and getting three of a kind?
    $\frac{6}{216} = \frac{1}{36}$