

1. A die is rolled and a coin is tossed. What is the probability of getting a number less than 4 on the die and heads on the coin?

**2. Simplify**

$$(x + y)^0$$

**3. Simplify**

$$(x + y)^1$$

**4. Multiply and simplify**

$$(x + y)^2$$

**5. Multiply and simplify**

$$(x + y)^3$$

**6. Multiply and simplify**

$$(x + y)^4$$

**7. Multiply and simplify**

$$(x + y)^5$$