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Math worksheet on *'Probability - Dice (4), Not All Specific, To Fraction Equation (Level 1)'*. Part of a broader unit on *'Probability and Counting - Multiple Events - Advanced'*

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1 What is the equation for the chance of NOT rolling all 6's on these dice?

a $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

2 What is the equation for the chance of NOT rolling all 5's on these dice?

a $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

3 What is the equation for the chance of NOT rolling all 2's on these dice?

a $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

4 What is the equation for the chance of NOT rolling all 2's on these dice?

a $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

5 What is the equation for the chance of NOT rolling all 4's on these dice?

a $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

6 What is the equation for the chance of NOT rolling all 1's on these dice?

a $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

7 What is the equation for the chance of NOT rolling all 3's on these dice?

a $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

b $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

c $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

d $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

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