

NAME: _____

DATE: _____

PROBABILITY

PERIOD: _____

REVIEW (2)

You roll a number cube twice. Find the probability of the events. *Show your work.*

1. Rolling a 3 twice	2. Rolling an even number and a 5
3. Rolling an odd number and a 2 or a 4	4. Rolling a number less than 6 and a 3 or a 1

You randomly choose a letter from a hat with the letters A through J. Without replacing the first letter, you choose a second letter. Find the probability of the events. *Show your work.*

5. Choosing an H and then a D	6. Choosing a consonant and then an E or an I
7. Choosing a vowel and then an F	8. Choosing a vowel and then a consonant

9. You have 3 clasp bracelets, 4 watches, and 5 stretch bracelets. You randomly choose two from your jewelry box. What is the probability that you will choose 2 watches?

A flip a coin, and then roll a number cube twice. Find the probability of the event. Show your work.

10. Flipping heads, rolling a 5, and rolling a 2

11. Flipping tails, rolling an odd number, and rolling a 4

12. Flipping tails, rolling a 6 or a 1, and rolling a 3

13. Flipping heads, *not* rolling a 2, and rolling an even number

NAME: _____
PROBABILITY



DATE: _____
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26/26

REVIEW (2)

You roll a number cube twice. Find the probability of the events. Show your work.

<p>1. Rolling a 3 twice</p> $P(3) \cdot P(3)$ $\frac{1}{6} \cdot \frac{1}{6}$ $\frac{1}{36}$	<p>2. Rolling an even number and a 5</p> $P(\text{even}) \cdot P(5)$ $\frac{1}{2} \cdot \frac{1}{6}$ $\frac{1}{12}$
<p>3. Rolling an odd number and a 2 or a 4</p> $P(\text{odd}) \cdot P(2 \text{ or } 4)$ $\frac{1}{2} \cdot \frac{2}{6}$ $\frac{1}{6}$	<p>4. Rolling a number less than 6 and a 3 or a 1</p> $P(n < 6) \cdot P(3 \text{ or } 1)$ $\frac{5}{6} \cdot \frac{2}{6}$ $\frac{5}{18}$

You randomly choose a letter from a hat with the letters A through J. Without replacing the first letter, you choose a second letter. Find the probability of the events. Show your work.

<p>5. Choosing an H and then a D</p> $P(H) \cdot P(D)$ $\frac{1}{10} \cdot \frac{1}{9}$ $\frac{1}{90}$	<p>6. Choosing a consonant and then an E or an I</p> $P(\text{consonant}) \cdot P(E \text{ or } I)$ $\frac{7}{10} \cdot \frac{2}{9}$ $\frac{7}{45}$
<p>7. Choosing a vowel and then an F</p> $P(\text{vowel}) \cdot P(F)$ $\frac{3}{10} \cdot \frac{1}{9}$ $\frac{1}{30}$	<p>8. Choosing a vowel and then a consonant</p> $P(\text{vowel}) \cdot P(\text{consonant})$ $\frac{3}{10} \cdot \frac{7}{9}$ $\frac{7}{30}$

9. You have 3 clasp bracelets, 4 watches, and 5 stretch bracelets. You randomly choose two from your jewelry box. What is the probability that you will choose 2 watches?

$$P(\text{watch}) \cdot P(\text{watch})$$

$$\frac{4}{12} \cdot \frac{3}{11}$$

$$\frac{1}{11}$$

3. flip a coin, and then roll a number cube twice. Find the probability of the event. Show your work.

10. Flipping heads, rolling a 5, and rolling a 2

$$P(\text{Heads}) \cdot P(5) \cdot P(2)$$

$$\frac{1}{2} \cdot \frac{1}{6} \cdot \frac{1}{6}$$

$$\frac{1}{72}$$

11. Flipping tails, rolling an odd number, and rolling a 4

$$P(\text{Tails}) \cdot P(\text{odd}) \cdot P(4)$$

$$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{6}$$

$$\frac{1}{24}$$

12. Flipping tails, rolling a 6 or a 1, and rolling a 3

$$P(\text{tails}) \cdot P(6 \text{ or } 1) \cdot P(3)$$

$$\frac{1}{2} \cdot \frac{2}{6} \cdot \frac{1}{6}$$

$$\frac{1}{36}$$

13. Flipping heads, not rolling a 2, and rolling an even number

$$P(\text{Heads}) \cdot P(\text{not } 2) \cdot P(\text{even})$$

$$\frac{1}{2} \cdot \frac{5}{6} \cdot \frac{1}{2}$$

$$\frac{5}{24}$$