**ANSWER KEY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P( rolling a 1 and then rolling a 2)$\frac{1}{6}$ x $\frac{1}{6}$ = $\frac{1}{36}$ | P( rolling a 1 and then rolling 2 or less)$\frac{1}{6}$ x $\frac{2}{6}$ = $\frac{2}{36}$ | P( rolling an odd and then rolling a 2)$\frac{3}{6}$ x $\frac{1}{6}$ = $\frac{3}{36}$ | P( rolling a 1 or a 5 and then rolling 2 or a 6)$\frac{2}{6}$ x $\frac{2}{6}$ = $\frac{4}{36}$ | P( rolling a 5 or less and then rolling 4)$\frac{5}{6}$ x $\frac{1}{6}$ = $\frac{5}{36}$ |
| P( picking a Jack of hearts and then a Jack of spades with replacement)$\frac{1}{52}$ x $\frac{1}{52}$ = $$\frac{1}{2704}$$ | P( picking a Jack and then a Queen with replacement)$\frac{4}{52}$ x $\frac{4}{52}$ = $$\frac{16}{2704}$$ | P( picking any Jack and then a Queen of clubs with replacement)$\frac{4}{52}$ x $\frac{1}{52}$ = $$\frac{4}{2704}$$ | P( picking a red Jack and then a Queen of diamonds with replacement)$\frac{2}{52}$ x $\frac{1}{52}$ = $$\frac{2}{2704}$$ | P( picking a face card and then a diamond replacement)$\frac{12}{52}$ x $\frac{13}{52}$ = $$\frac{156}{2704}$$ |
| P( picking a face card and then a rolling a 1)$\frac{12}{52}$ x $\frac{1}{6}$ = $$\frac{12}{312}$$ | P( picking a red card and then a rolling an odd)$\frac{26}{52}$ x $\frac{3}{6}$ = $$\frac{78}{312}$$ | P( picking a six or seven card and then a rolling a 3 or greater)$\frac{8}{52}$ x $\frac{4}{6}$ = $$\frac{32}{312}$$ | P( picking a black five, six, or seven and then a rolling an odd)$\frac{6}{52}$ x $\frac{3}{6}$ = $$\frac{18}{312}$$ | P( picking a face card and then a rolling a prime number)$\frac{12}{52}$ x $\frac{3}{6}$ = $$\frac{36}{312}$$ |
| P( picking a vowel and a red marble)5 R, 12G, 3B$\frac{5}{26}$ x $\frac{5}{20}$ = $$\frac{25}{520}$$ | P( picking a letter from the word CAT and a green marble)5 R, 12G, 3B$\frac{3}{26}$ x $\frac{12}{20}$ = $$\frac{36}{520}$$ | P( picking a letter from the word MATH and a green marble)5 R, 12G, 3B$\frac{4}{26}$ x $\frac{12}{20}$ = $$\frac{48}{520}$$ | P( picking a letter from the word BANANA and a blue marble)5 R, 12G, 3B$\frac{3}{26}$ x $\frac{3}{20}$ = $$\frac{9}{520}$$ | P( picking a letter from the word MATHEMATICS and a red marble)5 R, 12G, 3B$\frac{8}{26}$ x $\frac{5}{20}$ = $$\frac{40}{520}$$ |
| P( picking a consonant and NOT a red marble)5 R, 12G, 3B$\frac{21}{26}$ x $\frac{15}{20}$ = $$\frac{315}{520}$$ | P( picking a letter from the word BANANA and a rolling a 1)$\frac{3}{26}$ x $\frac{1}{6}$ = $$\frac{3}{156}$$ | P( picking a letter from the word LONGHORNS and a NOT green marble)5 R, 12G, 3B$\frac{7}{26}$ x $\frac{8}{20}$ = $$\frac{56}{520}$$ | P( picking a letter from the word BANANA and a rolling a prime)$\frac{3}{26}$ x $\frac{3}{6}$ = $$\frac{9}{156}$$ | P( picking a letter from the word TEXAS and a NOT blue marble)5 R, 12G, 3B$\frac{5}{26}$ x $\frac{17}{20}$ = $$\frac{85}{520}$$ |

BINGO 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{1}{36}$$ | $$\frac{2}{36}$$ | $$\frac{315}{520}$$ | $$\frac{4}{2704}$$ | $$\frac{16}{2704}$$ |
| $$\frac{78}{312}$$ | $$\frac{9}{520}$$ | $$\frac{25}{520}$$ | $$\frac{32}{312}$$ | $$\frac{40}{520}$$ |
| $$\frac{1}{2704}$$ | $$\frac{85}{520}$$ | $$\frac{3}{36}$$ | $$\frac{36}{520}$$ | $$\frac{36}{312}$$ |
| $$\frac{12}{312}$$ | $$\frac{4}{36}$$ | $$\frac{156}{2704}$$ | $$\frac{18}{312}$$ | $$\frac{2}{2704}$$ |
| $$\frac{3}{156}$$ | $$\frac{48}{520}$$ | $$\frac{56}{520}$$ | $$\frac{9}{156}$$ | $$\frac{5}{36}$$ |

BINGO 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{315}{520}$$ | $$\frac{5}{36}$$ | $$\frac{9}{520}$$ | $$\frac{32}{312}$$ | $$\frac{25}{520}$$ |
| $$\frac{36}{312}$$ | $$\frac{85}{520}$$ | $$\frac{3}{36}$$ | $$\frac{56}{520}$$ | $$\frac{36}{520}$$ |
| $$\frac{2}{36}$$ | $$\frac{3}{156}$$ | $$\frac{78}{312}$$ | $$\frac{1}{36}$$ | $$\frac{18}{312}$$ |
| $$\frac{1}{2704}$$ | $$\frac{12}{312}$$ | $$\frac{48}{520}$$ | $$\frac{16}{2704}$$ | $$\frac{4}{2704}$$ |
| $$\frac{9}{156}$$ | $$\frac{156}{2704}$$ | $$\frac{2}{2704}$$ | $$\frac{40}{520}$$ | $$\frac{4}{36}$$ |

BINGO 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{48}{520}$$ | $$\frac{2}{2704}$$ | $$\frac{32}{312}$$ | $$\frac{40}{520}$$ | $$\frac{1}{36}$$ |
| $$\frac{156}{2704}$$ | $$\frac{36}{520}$$ | $$\frac{3}{36}$$ | $$\frac{2}{36}$$ | $$\frac{56}{520}$$ |
| $$\frac{36}{312}$$ | $$\frac{315}{520}$$ | $$\frac{12}{312}$$ | $$\frac{16}{2704}$$ | $$\frac{18}{312}$$ |
| $$\frac{4}{36}$$ | $$\frac{9}{520}$$ | $$\frac{78}{312}$$ | $$\frac{25}{520}$$ | $$\frac{5}{36}$$ |
| $$\frac{1}{2704}$$ | $$\frac{85}{520}$$ | $$\frac{4}{2704}$$ | $$\frac{3}{156}$$ | $$\frac{9}{156}$$ |

BINGO 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{25}{520}$$ | $$\frac{9}{520}$$ | $$\frac{85}{520}$$ | $$\frac{1}{36}$$ | $$\frac{315}{520}$$ |
| $$\frac{2}{36}$$ | $$\frac{32}{312}$$ | $$\frac{12}{312}$$ | $$\frac{3}{36}$$ | $$\frac{4}{2704}$$ |
| $$\frac{156}{2704}$$ | $$\frac{78}{312}$$ | $$\frac{18}{312}$$ | $$\frac{36}{520}$$ | $$\frac{4}{36}$$ |
| $$\frac{56}{520}$$ | $$\frac{1}{2704}$$ | $$\frac{48}{520}$$ | $$\frac{3}{156}$$ | $$\frac{36}{312}$$ |
| $$\frac{9}{156}$$ | $$\frac{40}{520}$$ | $$\frac{5}{36}$$ | $$\frac{16}{2704}$$ | $$\frac{2}{2704}$$ |

BINGO 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{3}{156}$$ | $$\frac{3}{36}$$ | $$\frac{9}{520}$$ | $$\frac{25}{520}$$ | $$\frac{32}{312}$$ |
| $$\frac{36}{312}$$ | $$\frac{12}{312}$$ | $$\frac{4}{36}$$ | $$\frac{18}{312}$$ | $$\frac{4}{2704}$$ |
| $$\frac{78}{312}$$ | $$\frac{40}{520}$$ | $$\frac{1}{2704}$$ | $$\frac{36}{520}$$ | $$\frac{56}{520}$$ |
| $$\frac{1}{36}$$ | $$\frac{16}{2704}$$ | $$\frac{48}{520}$$ | $$\frac{2}{2704}$$ | $$\frac{2}{36}$$ |
| $$\frac{315}{520}$$ | $$\frac{85}{520}$$ | $$\frac{5}{36}$$ | $$\frac{9}{156}$$ | $$\frac{156}{2704}$$ |