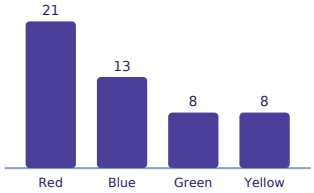
Task card 1 Theoretical & Experimental Probabi...

A bag has 7 red, 10 blue, and 2 green marbles. One marble is picked at random. What is the theoretical probability that it is green?

Task card 2 Theoretical & Experimental Probabi...

A spinner was spun 50 times. The bar graph shows the results. What is the experimental probability of landing on blue?



Task card 3 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 162 times. How many times would you expect to roll an even number?

Task card 4 Theoretical & Experimental Probabi...

A coin was flipped 40 times and landed on heads 15 times. What is the experimental probability of landing on tails?

Task card 5 Theoretical & Experimental Probabi...

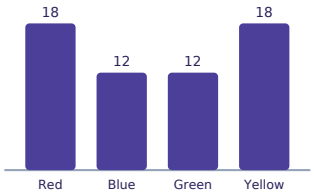
A bag has 2 red, 4 blue, and 3 green marbles. One marble is picked at random. What is the theoretical probability that it is red?

Task card 6 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 138 times. How many times would you expect to roll a multiple of 3?

Task card 7 Theoretical & Experimental Probabi...

A spinner was spun 60 times. The bar graph shows the results. What is the experimental probability of landing on blue?

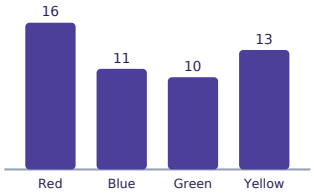


Task card 8 Theoretical & Experimental Probabi...

A bag has 5 red, 5 blue, and 4 green marbles. One marble is picked at random. What is the theoretical probability that it is blue?

Task card 9 Theoretical & Experimental Probabi...

A spinner was spun 50 times. The bar graph shows the results. What is the experimental probability of landing on red?



Task card 10 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 204 times. How many times would you expect to roll a multiple of 3?

Task card 11 Theoretical & Experimental Probabi...

A coin was flipped 20 times and landed on heads 8 times. What is the experimental probability of landing on tails?

Task card 12 Theoretical & Experimental Probabi...

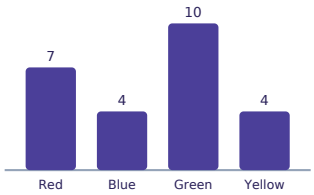
A bag has 5 red, 3 blue, and 5 green marbles. One marble is picked at random. What is the theoretical probability that it is red?

Task card 13 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 186 times. How many times would you expect to roll a number greater than 4?

Task card 14 Theoretical & Experimental Probabi...

A spinner was spun 25 times. The bar graph shows the results. What is the experimental probability of landing on red?

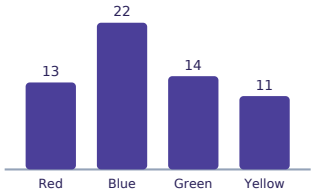


Task card 15 Theoretical & Experimental Probabi...

A bag has 3 red, 7 blue, and 4 green marbles. One marble is picked at random. What is the theoretical probability that it is red?

Task card 16 Theoretical & Experimental Probabi...

A spinner was spun 60 times. The bar graph shows the results. What is the experimental probability of landing on green?



Task card 17 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 174 times. How many times would you expect to roll a 5?

Task card 18 Theoretical & Experimental Probabi...

A coin was flipped 80 times and landed on heads 34 times. What is the experimental probability of landing on heads?

Task card 19 Theoretical & Experimental Probabi...

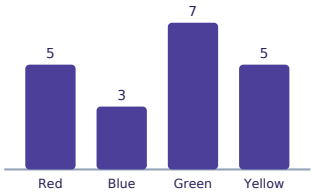
A bag has 2 red, 10 blue, and 3 green marbles. One marble is picked at random. What is the theoretical probability that it is red?

Task card 20 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 168 times. How many times would you expect to roll a 5?

Task card 21 Theoretical & Experimental Probabi...

A spinner was spun 20 times. The bar graph shows the results. What is the experimental probability of landing on green?

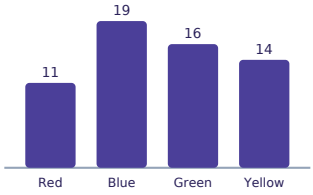


Task card 22 Theoretical & Experimental Probabi...

A bag has 6 red, 3 blue, and 4 green marbles. One marble is picked at random. What is the theoretical probability that it is blue?

Task card 23 Theoretical & Experimental Probabi...

A spinner was spun 60 times. The bar graph shows the results. What is the experimental probability of landing on red?



Task card 24 Theoretical & Experimental Probabi...

A fair number cube (1–6) is rolled 120 times. How many times would you expect to roll an even number?

Theoretical & Experimental Probability Task Cards

Recording sheet · Grade 7 · Write probabilities as fractions in simplest form. Answer predictions with a whole number.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Theoretical & Experimental Probability Task Cards: Answer Key

Grade 7 · Hard

The answers online

1. $\frac{2}{19}$	**2.** $\frac{13}{50}$	**3.** 81
4. $\frac{5}{8}$	**5.** $\frac{2}{9}$	**6.** 46
7. $\frac{1}{5}$	**8.** $\frac{5}{14}$	**9.** $\frac{8}{25}$
10. 68	**11.** $\frac{3}{5}$	**12.** $\frac{5}{13}$
13. 62	**14.** $\frac{7}{25}$	**15.** $\frac{3}{14}$
16. $\frac{7}{30}$	**17.** 29	**18.** $\frac{17}{40}$
19. $\frac{2}{15}$	**20.** 28	**21.** $\frac{7}{20}$
22. $\frac{3}{13}$	**23.** $\frac{11}{60}$	**24.** 60