Math Practice - Grade 7

M10 Probability - Compound events and sample spaces

M10 7.SP.5, 7.SP.6, 7.SP.7, 7.SP.7a, 7.SP.7b, 7.SP.8, 7.SP.8a, 7.SP.8b, 7.SP.8c

Name: _____ Date: _____

Read the sample space table. Write the probability in the box.

Example: Two coins are tossed. What is the probability of at least one head?

How: List every outcome in the sample space first. The probability is the number of outcomes where the event happens, divided by the total number of outcomes.

	H	T
H	HH	HT
T	TH	TT

$\frac{3}{4}$

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1 **Two spinners with red and blue sections are spun. What is the probability of both red?**

	R	B
R	RR	RB
B	BR	BB

$\frac{\quad}{\quad}$

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2 **Two number cubes are rolled. What is the probability the sum is 9?**

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$\frac{\quad}{\quad}$

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3 **Two spinners with red and blue sections are spun. What is the probability of exactly one red?**

	R	B
R	RR	RB
B	BR	BB

$\frac{\quad}{\quad}$

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Name: _____ Date: _____

Read the sample space table. Write the probability in the box.

Example: Two number cubes are rolled. What is the probability the sum is 8?

How: List every outcome in the sample space first. The probability is the number of outcomes where the event happens, divided by the total number of outcomes.

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$\frac{5}{36}$

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1 **Two number cubes are rolled. What is the probability the sum is 9?**

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$\frac{\quad}{\quad}$

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2 **Two spinners with red and blue sections are spun. What is the probability of both red?**

	R	B
R	RR	RB
B	BR	BB

$\frac{\quad}{\quad}$

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3 **Two coins are tossed. What is the probability of two tails?**

	H	T
H	HH	HT
T	TH	TT

$\frac{\quad}{\quad}$

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M10 7.SP.5, 7.SP.6, 7.SP.7, 7.SP.7a, 7.SP.7b, 7.SP.8, 7.SP.8a, 7.SP.8b, 7.SP.8c

Name: _____ Date: _____

Read the sample space table. Write the probability in the box.

Example: Two coins are tossed. What is the probability of exactly one head?

How: List every outcome in the sample space first. The probability is the number of outcomes where the event happens, divided by the total number of outcomes.

	H	T
H	HH	HT
T	TH	TT

$\frac{1}{2}$

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1 **Two spinners with red and blue sections are spun. What is the probability of exactly one red?**

	R	B
R	RR	RB
B	BR	BB

$\frac{\quad}{\quad}$

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2 **Two number cubes are rolled. What is the probability the sum is 5?**

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$\frac{\quad}{\quad}$

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3 **Two coins are tossed. What is the probability of at least one head?**

	H	T
H	HH	HT
T	TH	TT

$\frac{\quad}{\quad}$