Name		Class	_ Date		
12-8	Practice		Form K		
	Probability of Compound Events				
You spin a spin probability.	ner that has 8 equal-sized secti	ons numbered 1 to 8. Fi	nd each		
<b>1.</b> <i>P</i> (2 or 4)		<b>2.</b> <i>P</i> (odd or 6)			
<b>3</b> . <i>P</i> (multiple o	f 2 or odd)	<b>4.</b> <i>P</i> (odd or greater that	in 3)		
<b>5.</b> <i>P</i> (even or lease)	ss than 4)	<b>6.</b> <i>P</i> (multiple of 3 or n	ultiple of 2)		

7. Open-Ended What is an example of a compound event composed of two mutually exclusive events when you spin a spinner numbered 1 to 8?

## You roll a black number cube and a white number cube. Find each probability.

8. P(black 4	and	white 4)
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**9.** *P*(black even and white even)

**10.** P(black 3 or 4 and white 1 or 6)

**11.** *P*(black 1 and white odd)

**12.** *P*(black even and white greater than 2)

Class Date

Form K

## 12-8 Probability of Compound Events

Name

**13.** The probability that Hannah will be late for dinner is  $\frac{1}{2}$ . What is the probability that she will be late for dinner two nights in a row?

You choose a tile at random from a bag containing 4 tiles with R, 2 tiles with S, and 3 tiles with T. You replace the tile and then choose again. Find each probability.

**14.** *P*(both S)

**16.** *P*(R then T) **17.** *P*(T then S)

You choose a marble at random from a bag containing 3 yellow marbles, 8 red marbles, and 4 blue marbles. You pick a second marble without replacing the first. Find each probability.

<b>18.</b> P(	red then blue	) <b>19.</b> <i>P</i> (b	oth y	vellow)
	100 0101 0100	,		,

**20.** *P*(yellow then blue)

**21.** *P*(both red)

**15.** *P*(both T)

**22.** The committee to plan the homecoming dance has 4 juniors and 6 seniors. To decide who will plan the decorations, the advisor puts the names of the students in a hat and randomly picks one name. Then the advisor picks another name without replacing the first. What is the probability that both students picked are seniors?