

Area Models WS

Name _____
Date _____
Period _____

Find the probability of a coin landing on the shaded region.

The coin has an equal chance of landing on each square.

1. P(shaded region) =



2. P(shaded region) =



3. P(shaded region) =

Small rectangle dimensions: 7 x 9
Large rectangle dimensions: 9 x 18



4. P(shaded region) =

Radius of the small circle: 5 cm

Radius of the large circle: 10 cm



5. Estimate P(shaded region) =



6. Estimate P(shaded region) =



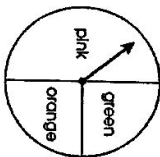
7. P(shaded region) =



20 ft

Area Models WS

8. The spinner shown is spun twice.



What is the probability of landing on pink and then landing on orange?

10. Samantha is flipping a coin and then spinning a spinner with the colors white, black, orange and red.

What is the theoretical probability she will flip heads and spin an orange or black on the spinner?

Explain by creating an area model.

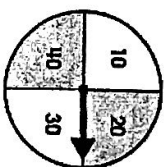
9. Chris is rolling two number cubes and then finding the sum of the two results. What is the theoretical probability that he will have a sum greater than or equal to 5?

Explain by shading in the area model below.

	6	5	4	3	2	1
6						
5						
4						
3						
2						
1						

11. A spinner and a number cube are used to play a game.

The sides of the cube are numbered 1 through 6. A player's score is the sum of the numbers on which the spinner lands and the number rolled on the cube.

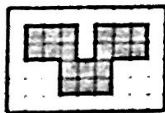


Find the probability of getting a sum that is an even number.

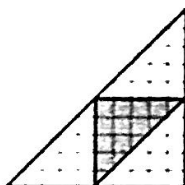
Provide an explanation by creating an area model.

Practice for Area Model for Probability (Math 7 and Math 7 PLUS)

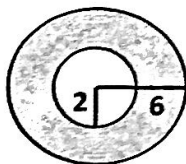
- 1) Find the probability that a randomly-dropped counter will fall in the shaded region.



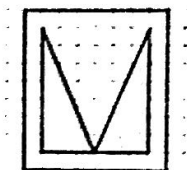
2. Find the probability that a randomly-dropped counter will fall in the shaded region.



3. What is the probability that a dart will hit the shaded area of the target?



4. Find the probability that a randomly-dropped counter will fall in the shaded region?



5. While you were riding in a hot-air balloon over a park, a sandbag fell off of the basket, but you don't know where in the park it fell. The entire park is 60,000 square feet. The playground in the park is 12,000 square feet. What is the probability that the sandbag is in the playground?