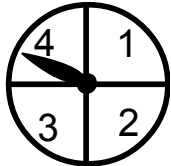


## Probability: Skill 5 - 26B

### Outcomes

For answer to test question 26B look at Example 1.

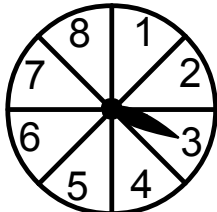
The probability of an event can be written as a fraction.

<p>What is the probability of the spinner stopping on 4?</p> 	<p>Possible outcomes: 1,2,3,4</p>	<p>There is one favorable outcome (stopping on 4). There are 4 possible outcomes 1, 2, 3, 4 so the probability of the spinner stopping on 4 is 1 out of 4.</p>	<p>You can also write 1 out of 4 as a fraction.</p> $\frac{1}{4}$
--	---------------------------------------	--	---

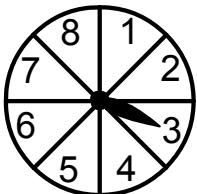
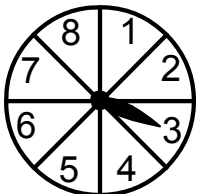
$\frac{1}{4}$  ← one favorable outcome  
 $\frac{1}{4}$  ← four possible outcomes

So, the probability of the spinner stopping on 4 is 1 out of 4 **or**  $\frac{1}{4}$ .

### Example 1

<p>What is the probability of the spinner stopping on 2 or 3?</p> <p style="text-align: center;">2 favorable outcomes (stopping on 2 or 3).</p> <p style="text-align: center;">8 possible outcomes (1,2,3,4,5,6,7,8)</p> <p><b>answer:</b> 2 out of 8 or <math>\frac{2}{8}</math>. An equivalent fraction for <math>\frac{2}{8}</math> is <math>\frac{1}{4}</math>.</p> <p>The probability of the pointer stopping on 2 or 3 is <math>\frac{2}{8}</math> or <math>\frac{1}{4}</math>.</p>	
---	---

**Directions:** Find the probability of each event?

<p><b>Example 2</b> spinning a 2</p> <p style="text-align: center;">1 favorable outcome (stopping on 2) 8 possible outcomes (1,2,3,4,5,6,7,8)</p>  <p style="text-align: right; margin-right: 50px;">Answer: <math>\frac{1}{8}</math></p>	<p><b>Example 3</b> spinning a 7 or 8</p> <p style="text-align: center;">2 favorable outcomes (stopping on 7 or 8) 8 possible outcomes (1,2,3,4,5,6,7,8)</p>  <p style="text-align: right;">Answer: <math>\frac{2}{8}</math> <b>or</b> the equivalent fraction <math>\frac{1}{4}</math></p>
--	--

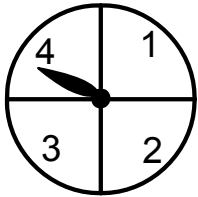
## Probability: Skill 5 - 26B

**Outcomes****Directions:** Find the probability of each event?**Example 4**

spinning an odd number

2 favorable outcome (stopping on 1 or 3)

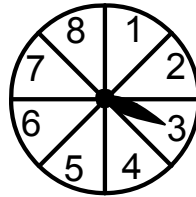
4 possible outcomes (1,2,3,4)

Answer:  $\frac{2}{4}$  or  $\frac{1}{2}$ **Example 5**

spinning an even number

4 favorable outcomes (stopping on 2,4,6 or 8)

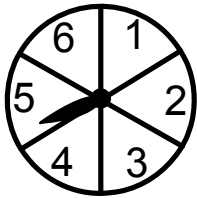
8 possible outcomes (1,2,3,4,5,6,7,8)

Answer:  $\frac{4}{8}$  or the equivalent fraction  $\frac{1}{2}$ **Directions:** Find the probability of each event?

1.

spinning an even number

Circle one.

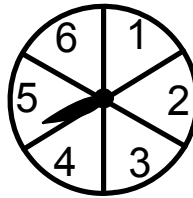


a.  $\frac{1}{2}$       b.  $\frac{5}{6}$   
 c.  $\frac{3}{4}$       d.  $\frac{4}{6}$

2.

spinning a 1 or 2

Circle one.

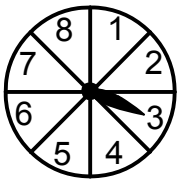


a.  $\frac{4}{6}$       b.  $\frac{1}{3}$   
 c.  $\frac{1}{6}$       d.  $\frac{5}{6}$

3.

spinning a number greater than 5

Circle one.

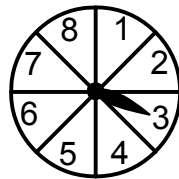


a.  $\frac{3}{8}$       b.  $\frac{4}{8}$   
 c.  $\frac{3}{4}$       d.  $\frac{1}{2}$

4.

spinning a 2 or 3

Circle one.

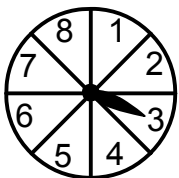


a.  $\frac{2}{4}$       b.  $\frac{3}{4}$   
 c.  $\frac{1}{4}$       d.  $\frac{1}{8}$

5.

spinning an even number

Circle one.

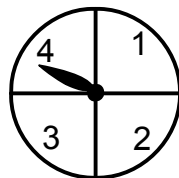


a.  $\frac{3}{8}$       b.  $\frac{1}{2}$   
 c.  $\frac{5}{8}$       d.  $\frac{1}{8}$

6.

spinning a 1

Circle one.

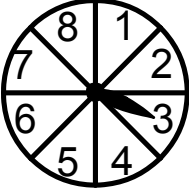
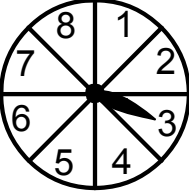
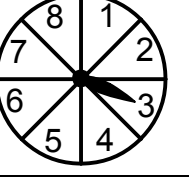
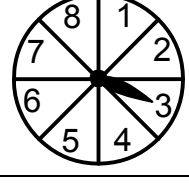
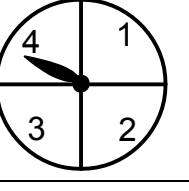
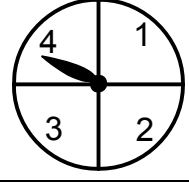
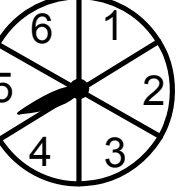
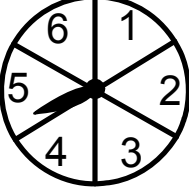
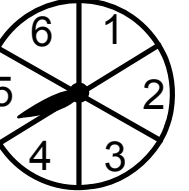
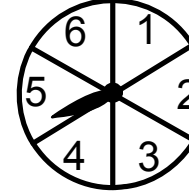


a.  $\frac{1}{4}$       b.  $\frac{3}{4}$   
 c.  $\frac{1}{2}$       d.  $\frac{2}{4}$

## Probability: Skill 5 - 26B

## Outcomes

**Directions:** Find the probability of each event?

<p>7. spinning a number greater than 3</p>  <p>Circle one.</p> <p>a. <math>\frac{1}{4}</math>      b. <math>\frac{3}{8}</math> c. <math>\frac{6}{8}</math>      d. <math>\frac{5}{8}</math></p>	<p>8. spinning a 7</p>  <p>Circle one.</p> <p>a. <math>\frac{7}{8}</math>      b. <math>\frac{1}{8}</math> c. <math>\frac{6}{8}</math>      d. <math>\frac{2}{8}</math></p>
<p>9. spinning a 2 or 5</p>  <p>Circle one.</p> <p>a. <math>\frac{1}{4}</math>      b. <math>\frac{3}{8}</math> c. <math>\frac{1}{8}</math>      d. <math>\frac{6}{8}</math></p>	<p>10. spinning number less than 6</p>  <p>Circle one.</p> <p>a. <math>\frac{6}{8}</math>      b. <math>\frac{5}{8}</math> c. <math>\frac{3}{4}</math>      d. <math>\frac{2}{8}</math></p>
<p>11. not spinning a 2</p>  <p>Circle one.</p> <p>a. <math>\frac{4}{4}</math>      b. <math>\frac{3}{4}</math> c. <math>\frac{1}{8}</math>      d. <math>\frac{1}{4}</math></p>	<p>12. spinning a 2 or 4</p>  <p>Circle one.</p> <p>a. <math>\frac{3}{4}</math>      b. <math>\frac{1}{2}</math> c. <math>\frac{1}{4}</math>      d. <math>\frac{3}{8}</math></p>
<p>13. spinning a number less than three.</p>  <p>Circle one.</p> <p>a. <math>\frac{1}{3}</math>      b. <math>\frac{4}{6}</math> c. <math>\frac{2}{3}</math>      d. <math>\frac{1}{2}</math></p>	<p>14. spinning a number greater than 3</p>  <p>Circle one.</p> <p>a. <math>\frac{1}{2}</math>      b. <math>\frac{4}{6}</math> c. <math>\frac{3}{8}</math>      d. <math>\frac{5}{6}</math></p>
<p>15. spinning a 2 or 3</p>  <p>Circle one.</p> <p>a. <math>\frac{3}{6}</math>      b. <math>\frac{1}{3}</math> c. <math>\frac{4}{6}</math>      d. <math>\frac{1}{6}</math></p>	<p>16. spinning an odd number</p>  <p>Circle one.</p> <p>a. <math>\frac{2}{6}</math>      b. <math>\frac{5}{6}</math> c. <math>\frac{1}{6}</math>      d. <math>\frac{1}{2}</math></p>

## Probability: Skill 5 - 26B

**Outcomes**

**Directions:** Find the probability of each event? Pretend you are pulling a marble without looking.

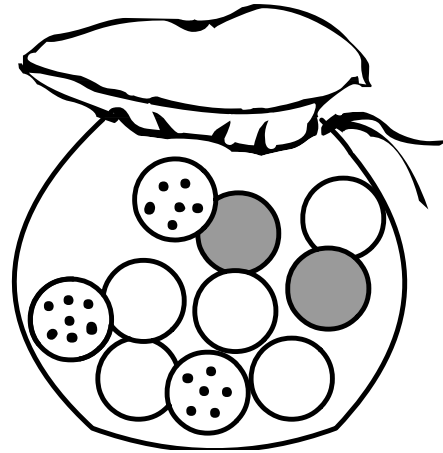
17. pulling a white marble

18. pulling a gray marble

19. pulling a spotted marble

20. pulling a white or gray marble

21. pulling a gray or spotted marble



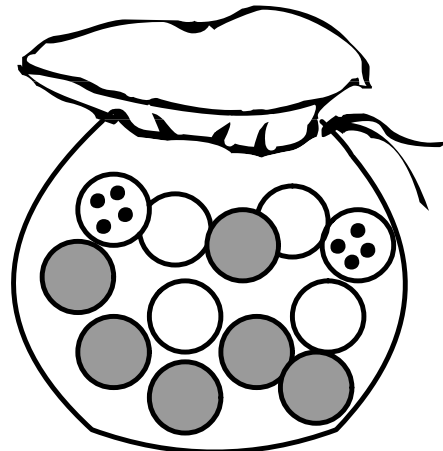
22. pulling any marble

23. pulling a gray marble

24. pulling a gray or spotted marble

25. pulling a white marble

26. pulling a marble that is not gray



Answer Key: Skill 26B Grade 5

1. three out of six; $\frac{3}{6}$ or $\frac{1}{2}$	2. two out of six; $\frac{2}{6}$ or $\frac{1}{3}$	3. three out of eight; $\frac{3}{8}$
4. two out of eight; $\frac{2}{8}$ or $\frac{1}{4}$	5. four out of eight; $\frac{4}{8}$ or $\frac{1}{2}$	6. one out of four; $\frac{1}{4}$
7. five out of eight; $\frac{5}{8}$	8. one out of eight; $\frac{1}{8}$	9. two out of eight; $\frac{2}{8}$ or $\frac{1}{4}$
10. five out of eight; $\frac{5}{8}$	11. three out of four; $\frac{3}{4}$	12. two out of four; $\frac{2}{4}$ or $\frac{1}{2}$
13. two out of six; $\frac{2}{6}$ or $\frac{1}{3}$	14. three out of six; $\frac{3}{6}$ or $\frac{1}{2}$	15. two out of six; $\frac{2}{6}$ or $\frac{1}{3}$
16. three out of six; $\frac{3}{6}$ or $\frac{1}{2}$	17. five out of ten; $\frac{5}{10}$ or $\frac{1}{2}$	18. two out of ten; $\frac{2}{10}$ or $\frac{1}{5}$
19. three out of ten; $\frac{3}{10}$	20. seven out of ten; $\frac{7}{10}$	21. five out of ten; $\frac{5}{10}$ or $\frac{1}{2}$
22. twelve out of twelve; $\frac{12}{12}$ or 1 a probability of 1 is certain to happen	23. six out of twelve; $\frac{6}{12}$ or $\frac{1}{2}$	
24. eight out of twelve; $\frac{8}{12}$ or $\frac{2}{3}$	25. four out of twelve; $\frac{4}{12}$ or $\frac{1}{3}$	26. six out of twelve; $\frac{6}{12}$ or $\frac{1}{2}$