# Learn Fresh Post-Test

**Name (First and Last):** _____

**Grade:** _____

**Your state:** _____

**Your after-school site:** _____

**Gender (Circle answer):**

Male                Female

**Ethnicity (Circle all that you identify with):**

American Indian or Alaskan Native

Asian, Native Hawaiian, or other Pacific Islander

Black or African-American

Hispanic or Latino

White

Other


**Which team won the NBA Championship last season? (Circle one)**

Cleveland Cavaliers

Golden State Warriors

Toronto Raptors

Houston Rockets


**How many NBA Math Hoops games have you played this year? (Circle one)**

30+

11-29

6-10

1-5

0

**How many NBA Math Hoops "basketball skills" pieces have you completed this year? (Circle one)**

10+

7-9

4-6

1-3

0

# PRE-TEST SURVEY

Select the response that best describes how you feel.

| | | | | |
|---|---|---|---|---|
| I stay calm when there is a problem or an argument. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I try to help other people when they need help. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I like doing things for others. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I am good at solving problems. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I do not give up. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I give compliments to other people. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I like to do the right thing. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I am good at making decisions. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I think before I act. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| Other people see me as a leader. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| Other kids respect me. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I make good decisions. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I am an honest person. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I understand the importance of learning. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I think about my problems in ways that help. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I am a responsible person. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I can work through problems with others. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I know how to set goals for what I want to achieve. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I understand how to overcome a challenge. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |
| I work well with other kids on school projects. | ○ Never | ○ Sometimes | ○ Most of the Time | ○ Always |

| | | | | | |
|---|---|---|---|---|---|
| I enjoy playing NBA Math Hoops games. | ○ Strongly Disagree | ○ Disagree | ○ Neutral | ○ Agree | ○ Strongly Agree |
| I enjoy learning from the NBA Math Hoops worksheets. | ○ Strongly Disagree | ○ Disagree | ○ Neutral | ○ Agree | ○ Strongly Agree |
| NBA Math Hoops makes math more fun. | ○ Strongly Disagree | ○ Disagree | ○ Neutral | ○ Agree | ○ Strongly Agree |
| I feel more confident in math class after participating in NBA Math Hoops. | ○ Strongly Disagree | ○ Disagree | ○ Neutral | ○ Agree | ○ Strongly Agree |

# MATH AGILITY!

You have 90 seconds to answer as many of the following questions as possible. Numbers that are not whole should be rounded to the nearest whole number. Try your best!

7 + 1 =

6 - 3 =

6 x 6 =

9 / 3 =

7 + 5 =

9 x 0 =

7 x 7 =

7 - 1 =

4 x 5 =

9 / 2 =

8 x 7 =

8 - 8 =

5 / 2 =

7 x 9 =

4 + 3 =

6 + 5 =

9 - 7 =

2 x 8 =

7 / 1 =

9 - 1 =

6 / 2 =

| 5 x 2 = | |
| 8 / 2 = | |
| 3 x 4 = | |

| 8 - 7 = | |
| 5 x 8 = | |
| 1 x 1 = | |
| 10 / 3 = | |
| 9 + 8 = | |
| 3 - 2 = | |

# MULTIPLE CHOICE

Select your answer for each of the following questions.
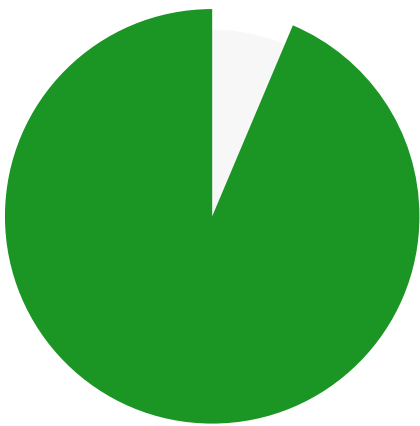
**Player A**

**Player B**

**Player C**

**Player X**

**Player D**

**Player E**

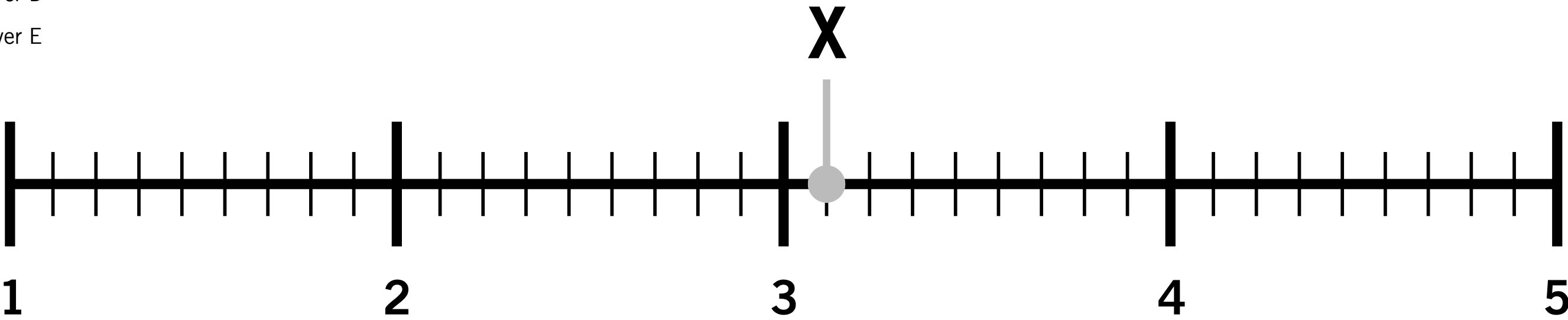**Question 1)**

All of the pie charts above represent WNBA players' odds of making a shot.

Which player's chart is about half of the value of Player X?

○ Player A
○ Player B
○ Player C
○ Player D
○ Player E

**X**

1       2       3       4       5

**Question 2)**

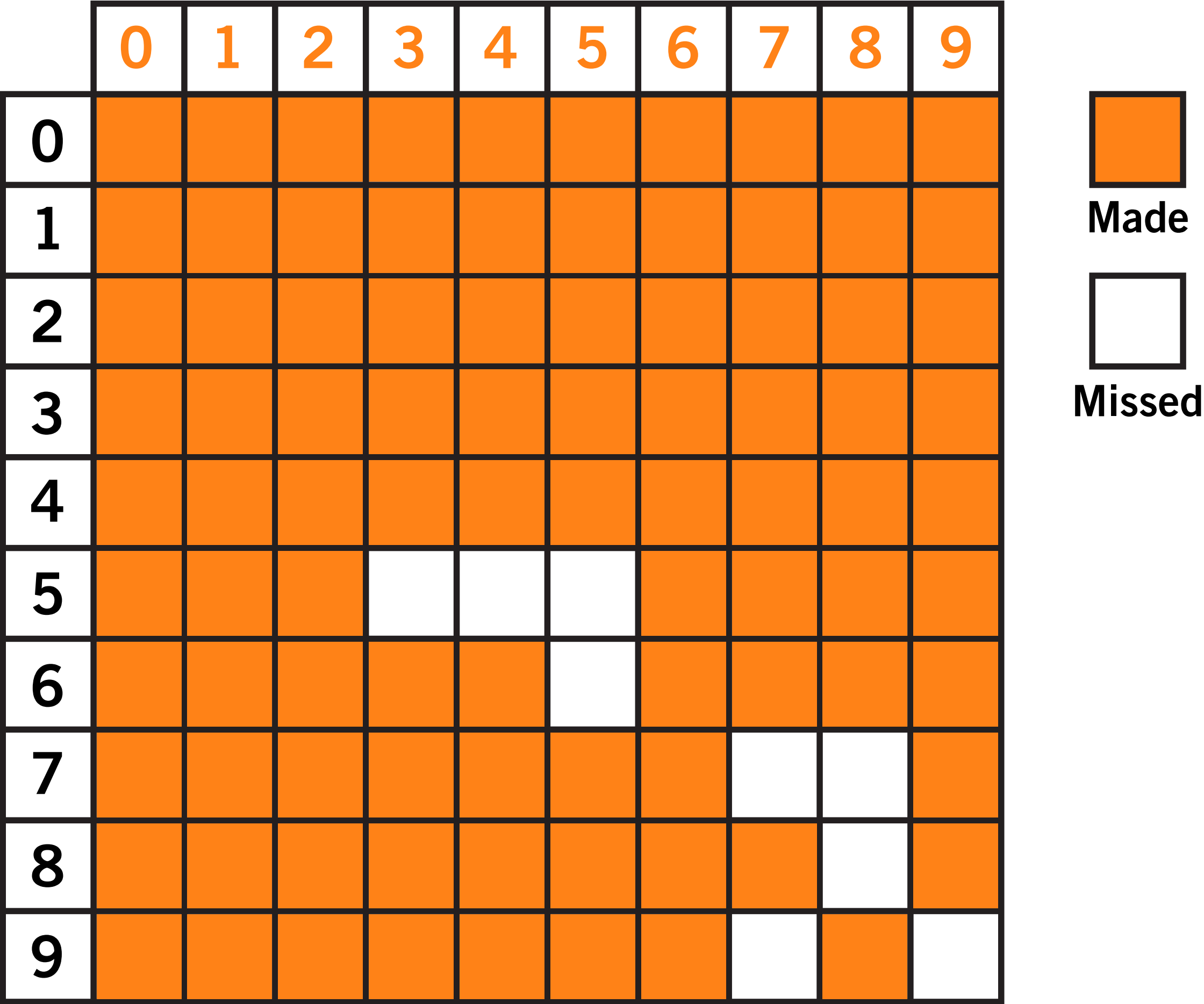Which of the following decimal numbers can be represented by point X on the number line?

○ 0.4
○ 1.1
○ 2.7
○ 3.1
○ 4.5

**Question 3)**

An NFL kicker makes 80 percent of his field goals in a given season.

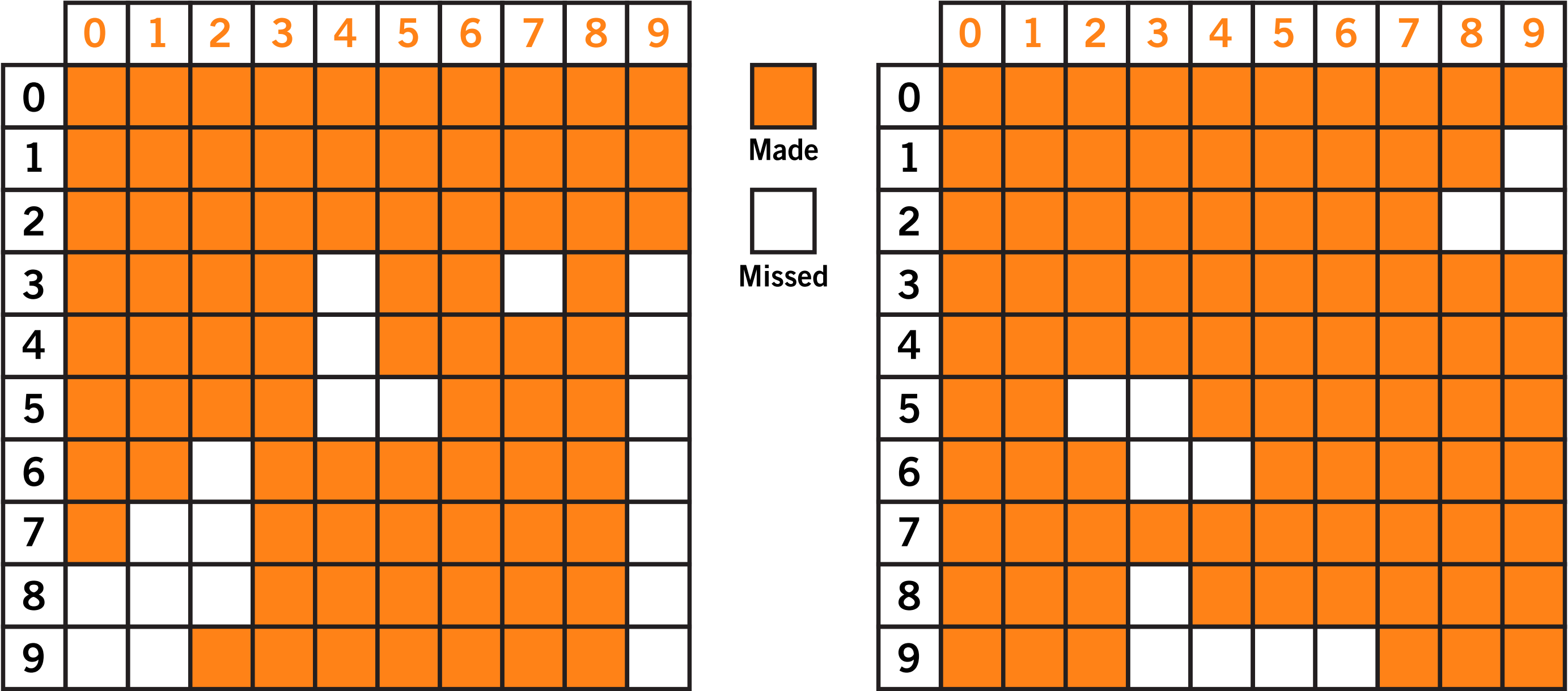Which of the following statements describes how frequently he makes field goals?

○ He makes 1/5 of his field goals.

○ He makes 1/25 of his field goals

○ He makes 4/5 of his field goals.

○ He makes 1/3 of his field goals.

○ He makes 1/10 of his field goals.

|   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 3 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 4 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 5 | ■ | ■ | ■ | □ | □ | □ | ■ | ■ | ■ | ■ |
| 6 | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ | ■ |
| 7 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ |
| 8 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ |
| 9 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ |

■ Made

□ Missed

**Question 4)**

The chart above represents an NBA player's odds of making a free throw. Which percentage is represented by the chart above?

○ 10%

○ 25%

○ 67%

○ 79%

○ 91%

## Question 5)

The charts above represent two WNBA players' odds of making free throws. Which of the following statements about the represented values is true?

- ○ The represented values are more than 10 percentage points apart.
- ○ The represented values are between 5-9 percentage points apart.
- ○ The represented values are between 2-4 percentage points apart.
- ○ The represented values are 1 percentage point apart.
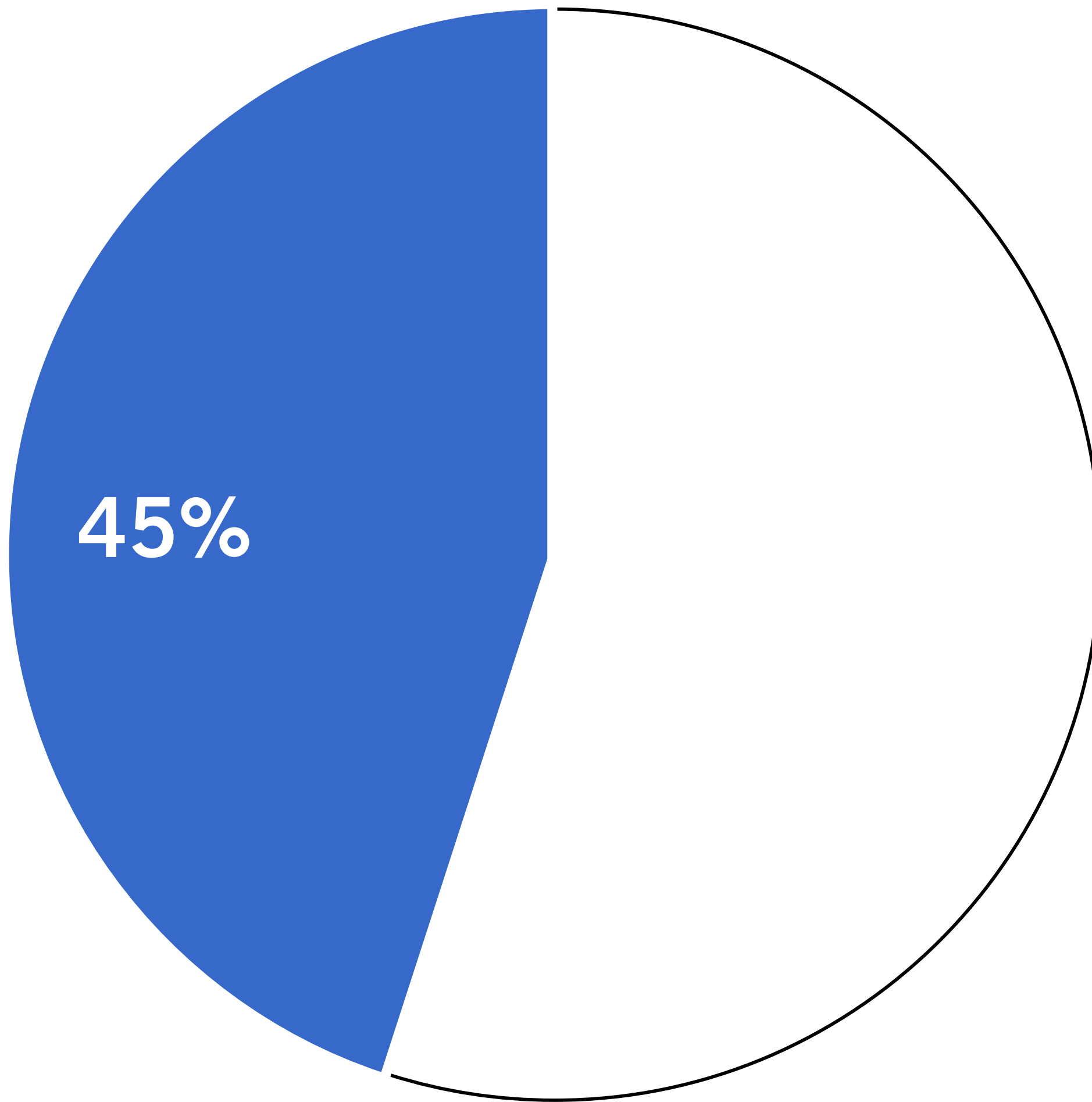- ○ The represented values are the same.

## Question 6)

Four NBA players competed in three separate games. The table shows the total number of shots each player had made after each game.

|  | Shots Made After Game 1 | Shots Made After Game 2 | Shots Made After Game 3 |
|---|---|---|---|
| Player A | 10 | 20 | 25 |
| Player B | 4 | 11 | 20 |
| Player C | 3 | 6 | 9 |
| Player D | 10 | 13 | 19 |

Which player made the same number of shots in each game?

- ○ Player A
- ○ Player B
- ○ Player C
- ○ Player D

**Question 7)**

The pie chart above represents a WNBA player's odds of making a three-point shot. The percentage represented is 45%.

If the player takes 200 shots, approximately how many shots should she expect to make?

○ 25
○ 42
○ 90
○ 127
○ 200

**Question 8)**

A basketball player makes 8 of 16 shots in a game. This performance represents his usual odds of making shots during a game.

How many shots should he expect to make if he takes 8 shots in his next game?

○ 0
○ 1
○ 2
○ 4
○ 8