Answer Sheets

What Are the Odds?

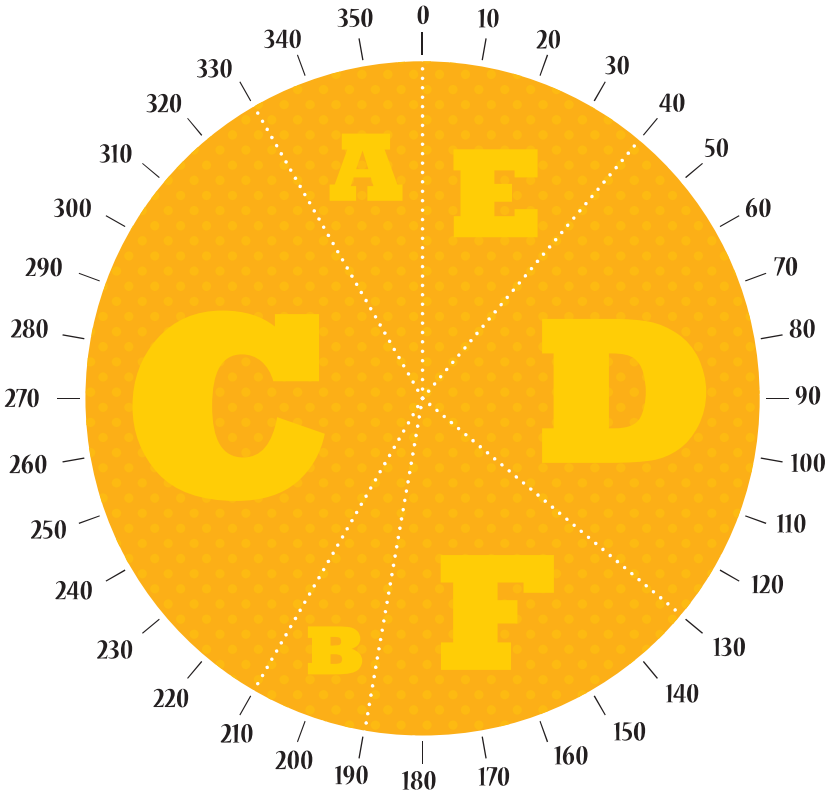
Answer Sheet

Probability Darts

ANSWERS

Find the portion of the dart board that each panel occupies and use your knowledge of degrees and fractions to answer the following questions about probability.

REMEMBER: Probability is the likelihood a given outcome will occur. It is expressed as a fraction.



Fractions

A **1/12**

30˚/360˚

B 1/18

C 1/3

D 1/4

E 1/9

F 1/6

Use the information above to answer the questions below.

1. Is it more likey that the dart will hit Panel A or Panel D? Why?
   D - It is more like to hit panel D because 1/4 is greater than 1/12

2. What is the probability that the next dart thrown hits a panel with a consonant?
   1/18 + 1/3 + 1/4 + 1/6 = 29/36

3. What is the probability that the next dart thrown hits a panel that alphabetically comes <u>after</u> C?
   1/4 + 1/9 + 1/6 = 19/36

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Probability Darts

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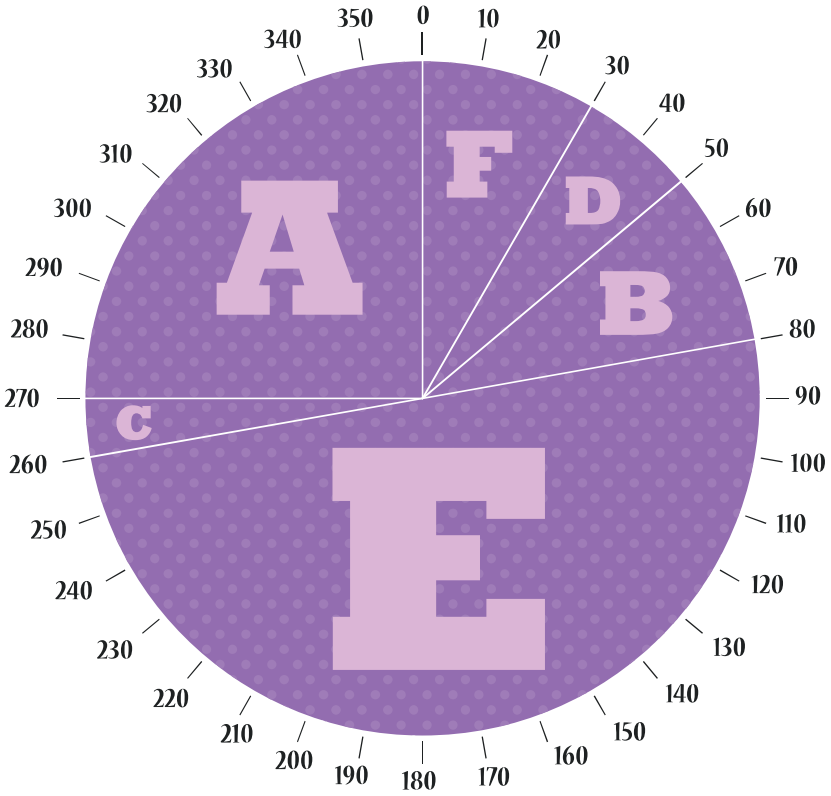

Fractions

A **1/4**

90˚/360˚

B 1/9

C 1/36

D 1/18

E 1/2

F 1/12

Use the information above to answer the questions below.

1. What is the probability that the next dart thrown hits panel C or B?

   1/36 + 1/18 = 1/2

2. What is the probability that the next dart thrown hits panel A, D, or F?

   1/4 + 1/18 + 1/12 = 7/18

3. Is the next dart thrown more likely to hit a vowel or a consonant?

   Vowel

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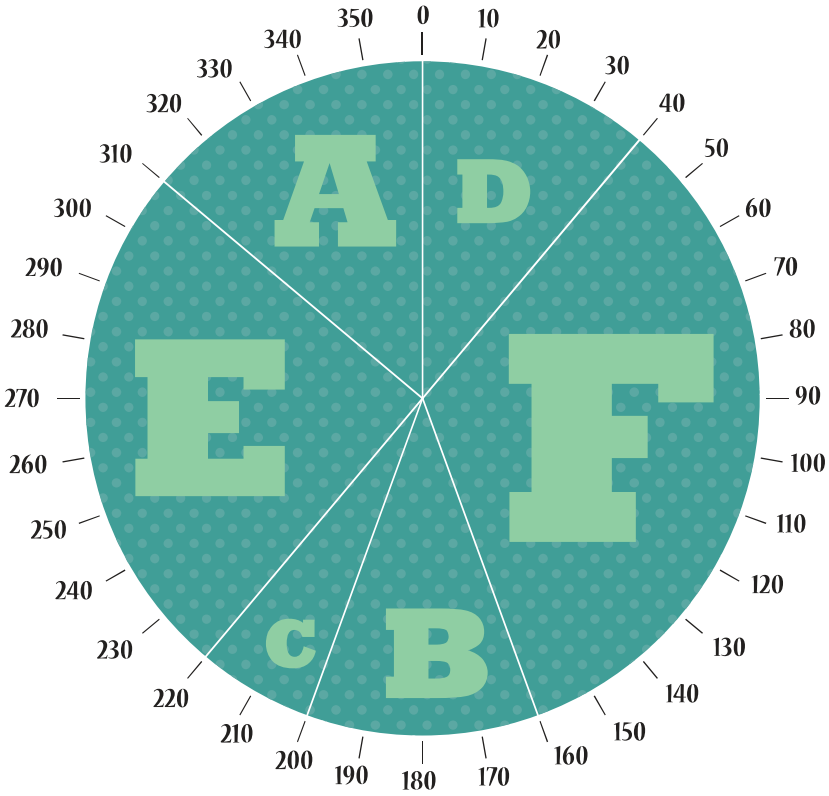

Fractions

A **1/6**

60˚/360˚

B 1/9

C 1/18

D 1/9

E 1/4

F 1/3

Use the information above to answer the questions below.

1. Is the next dart thrown more likely to hit E or F? Why?

   F - It is more like to hit panel F because 1/3 is greater than 1/4

2. What is the probability the next dart thrown hits a letter that comes before D alphabetically?

   1/6 + 1/9 + 1/18 = 1/3

3. What is the probability the next dart thrown hits panel A, B, or D? Is it more or less than 1/2?

   1/6 + 1/9 + 1/19 = 7/18 7/18 is less than 1/2

Answer Sheet

ANSWERS

Probability Darts

Find the portion of the dart board that each panel occupies and use your knowledge of degrees and fractions to answer the following questions about probability.

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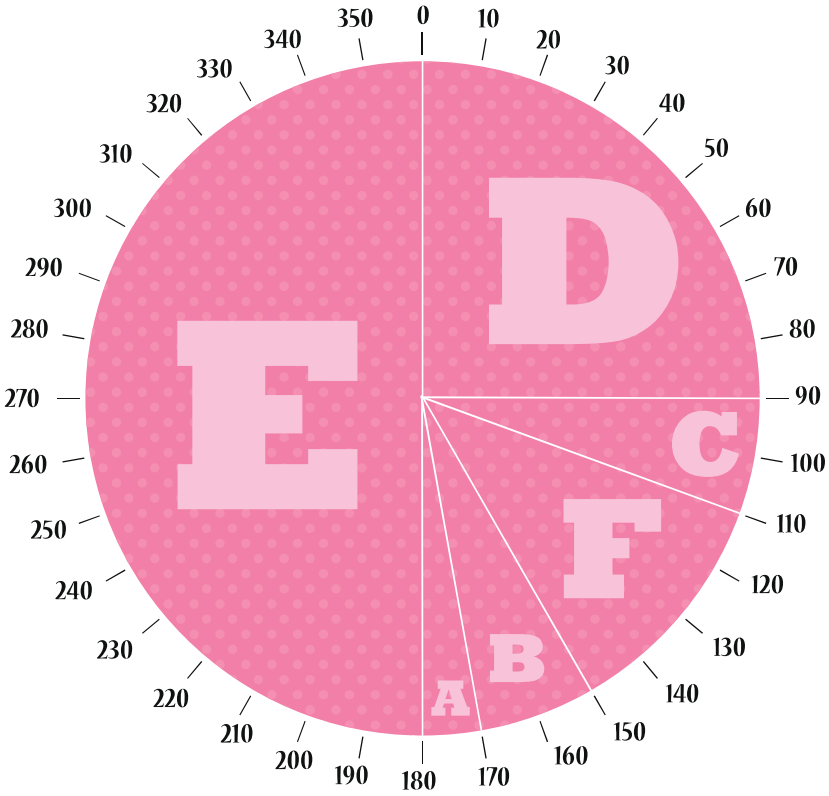

Fractions

A **1/36**

10°/360°

B 1/2

C 1/18

D 1/4

E 1/18

F 1/9

Use the information above to answer the questions below.

1. Is the next dart thrown more likely to hit a vowel or a consonant?
   Vowel

2. What is the probability that the next dart thrown hits panel C or panel B?
   1/18 + 1/2 = 5/9

3. Which panels have a probability **less than or equal to 1/6** that they will be hit? What is the probability that the next dart thrown hits one of them?
   1/36 + 1/8 + 1/18 + 1/9 = 1/4

Answer Sheet

ANSWERS

Probability Darts

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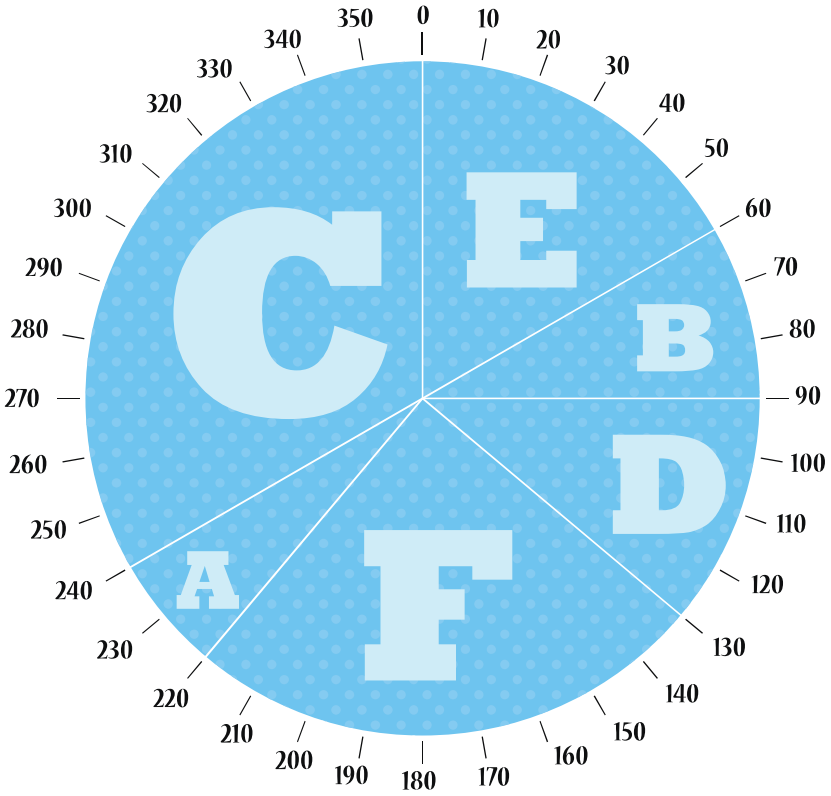

Fractions

A **1/18**

20˚/360˚

B 1/12

C 1/3

D 1/9

E 1/6

F 1/4

Use the information above to answer the questions below.

1. Is the next dart more likely to hit panel C, E, or F? Why?

   C - It is more like to hit panel C because 1/3 is greater than 1/6 and 1/4

2. What is the probability that the next dart thrown hits a panel with a letter that comes <u>after</u> C alphabetically?

   1/9 + 1/6 + 1/4 = 29/36

3. Write the letters of the panel in the order of most to least probable of being hit.

   C F E D B A

Answer Sheet

Probability Toss

Use fractions to express the probabilities of each outcome when a dart is thrown.

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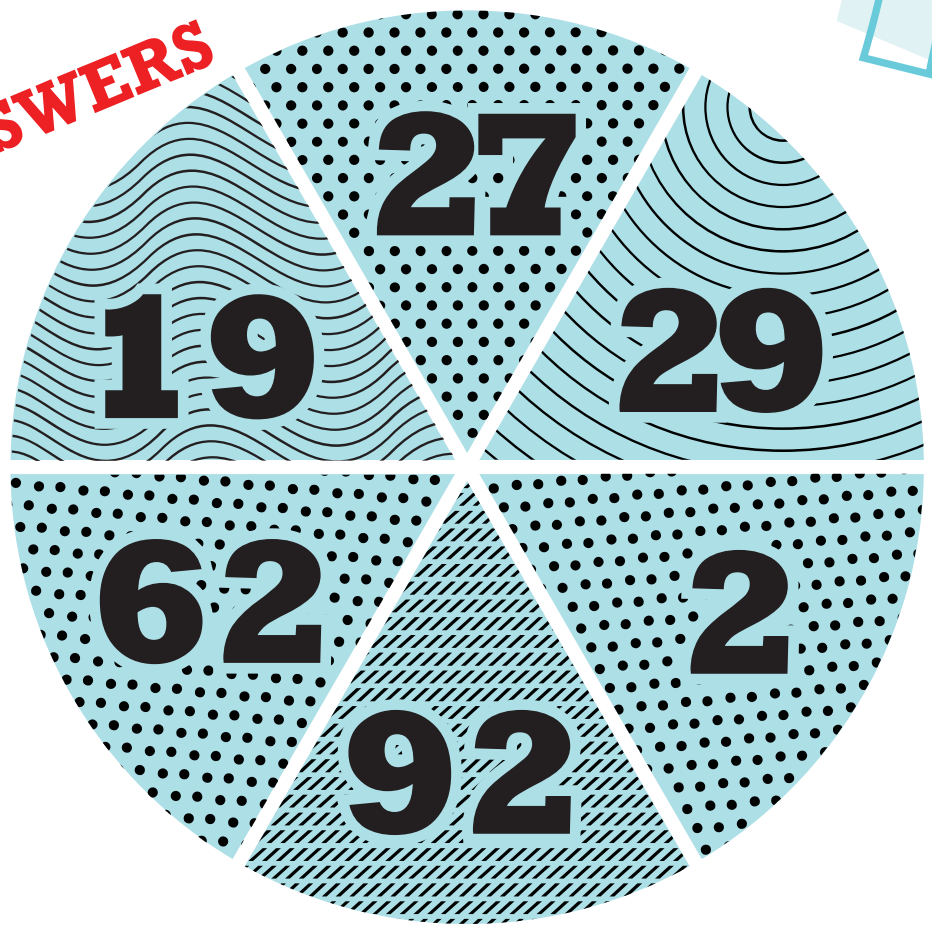

What is the probability that the next dart thrown hits a number that....

is greater than 15?

5/6

has a pattern?

3/6

is an even number?

3/6

has 9 in the one's digit?

2/6

is less than 61?

4/6

has a 2 in any digit?

5/6