LESSON MAKER PRO

Which Outcomes Count?

Turn everyday events into sets of outcomes.

GRADE 7 · 7.DSP.C.16.c

7.DSP.C.16.c "Represent events described in everyday language in terms of outcomes in the sample space which composed the event."

NAME _____ DATE _____

THE BIG IDEA

A sample space lists every possible outcome. To write an event, choose the outcomes that match its description and put them in braces.

WORKED EXAMPLE

One ticket is drawn from the table. Write the event "the ticket number is even" as a set of outcomes.

TICKETS

Left ticket	Right ticket
21	22
23	24
25	26

1. Read the six possible ticket numbers.
2. Select the even numbers: 22, 24, 26.

Answer: {22, 24, 26}

PRACTICE 4 problems

1 A number is picked from {1, 2, 3, 4, 5, 6}. List the outcomes for "the number is odd."

ANSWER _____

2 A letter is picked from {A, B, C, D, E}. List the outcomes for "the letter is not a vowel."

ANSWER _____

3 A school day is picked from {Monday, Tuesday, Wednesday, Thursday, Friday}. List the outcomes for "the day starts with T."

ANSWER _____

4 A wait time is picked from {0, 5, 10, 15, 20} minutes. List the outcomes for "the wait is less than 15 minutes."

ANSWER _____

APPLY IT Show your work

1 A music app picks one track from {pop 1, pop 2, rock 1, rock 2}. List the outcomes for "the track is rock."

WORK SPACE

ANSWER _____

2 A game picks a map, Cave or Reef, and an avatar, Fox or Owl. List the outcomes for "the map is Reef." Write each outcome as (map, avatar).

WORK SPACE

ANSWER _____

CHALLENGE One step up

A photo app pairs a color, red, blue, or green, with a frame, round or square. List the outcomes for "the color is blue or the frame is round." Write each outcome as (color, frame).

WORK SPACE AND ANSWER

ANSWER KEY

Which Outcomes Count?

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A number is picked from {1, 2, 3, 4, 5, 6}. List the outcomes for "the number is odd."	**{1, 3, 5}**
2	A letter is picked from {A, B, C, D, E}. List the outcomes for "the letter is not a vowel."	**{B, C, D}**
3	A school day is picked from {Monday, Tuesday, Wednesday, Thursday, Friday}. List the outcomes for "the day starts with T."	**{Tuesday, Thursday}**
4	A wait time is picked from {0, 5, 10, 15, 20} minutes. List the outcomes for "the wait is less than 15 minutes."	**{0, 5, 10}**

PART 2 · APPLY IT

1. **{rock 1, rock 2}** Select the two tracks labeled rock.
2. **{(Reef, Fox), (Reef, Owl)}** Pair Reef with each possible avatar.

CHALLENGE

{(red, round), (blue, round), (blue, square), (green, round)}

Accept outcomes in any order. For the challenge, "or" includes the outcome that meets both conditions.