

CHANCE RACEWAY



Materials

For each group of four students:

Chance Raceway game board

Chance Raceway cards

Chance Raceway spinner

4 game tokens (different colors)

Number of Players

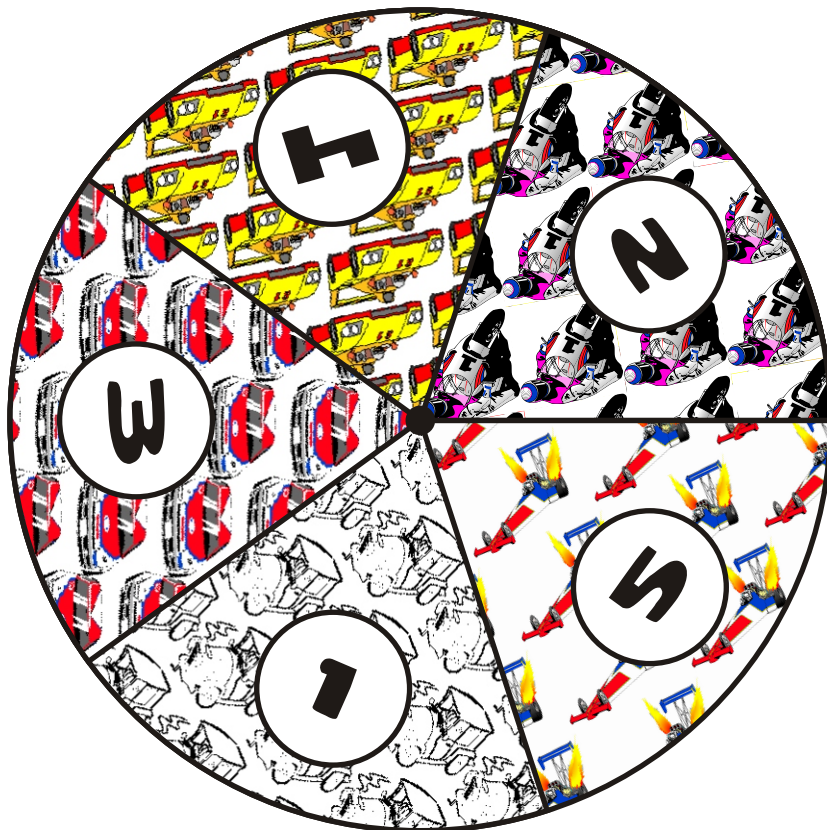
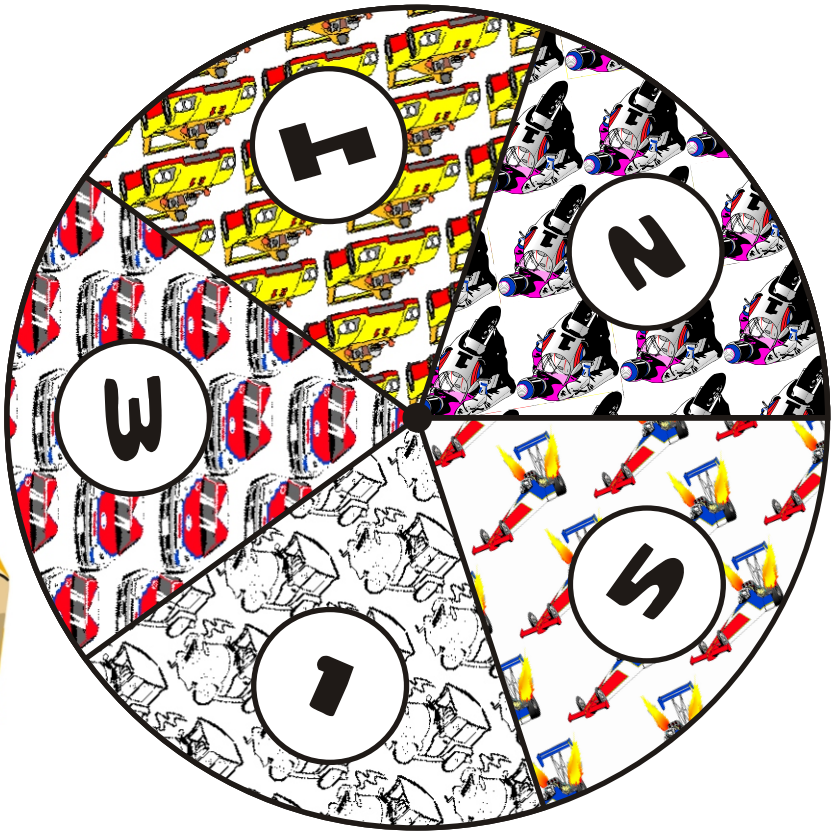
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Directions

1. Divide the students into groups of four.
2. Each player places his or her game token at start on the game board.
3. The cards should be shuffled and placed problem side up (answer side down) between the students.
4. Each student spins the spinner. The student who lands on the highest number will begin first. Players continue playing in a clockwise manner.
5. For the first move, Player 1 draws a *Chance Raceway* card from the pile and solves the problem. If his or her answer matches the correct answer on the other side of the card, Player 1 spins the spinner and moves that number of spaces on the game board. If an incorrect answer is given then Player 1's turn is over.
6. Play continues in this manner until a player reaches or goes past the finish line.
7. The first player to reach or pass the finish line wins.



CHANCE RACEWAY SPINNER



CHANCE RACEWAY SPINNER



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JOHN HAS A BAG CONTAINING 4 GREEN, 3 BLACK, 5 YELLOW, AND 2 BLUE MARBLES. IF HE RANDOMLY CHOOSES 1 MARBLE FROM THE BAG, WHAT IS THE PROBABILITY THAT THE MARBLE WILL BE GREEN?

JUAN HAS 5 GREEN MARKERS, 6 BLUE MARKERS, 7 RED MARKERS, AND 3 PURPLE MARKERS. IF HE GRABS A MARKER AT RANDOM, WHAT IS THE PROBABILITY THAT HE WILL NOT DRAW A RED MARKER?

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LEE HAS A SPINNER LABELED WITH THE FOLLOWING NUMBERS: 3, 5, 12, 15, 18, AND 21. IF HE SPINS THE SPINNER ONE TIME, WHAT IS THE PROBABILITY HE WILL GET AN ODD NUMBER?

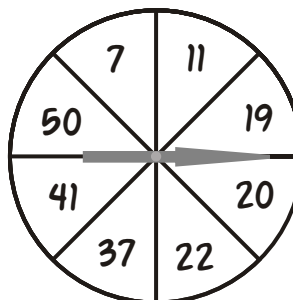
PABLO'S MOM MADE COOKIES FOR THE 6TH GRADE PARTY. SHE MADE $\frac{1}{2}$ DOZEN SUGAR, 1 DOZEN LEMON, AND 2 DOZEN CHOCOLATE COOKIES. IF PABLO RANDOMLY CHOOSES A COOKIE FROM THE BOX, WHAT ARE THE CHANCES HE WILL CHOOSE A SUGAR COOKIE?

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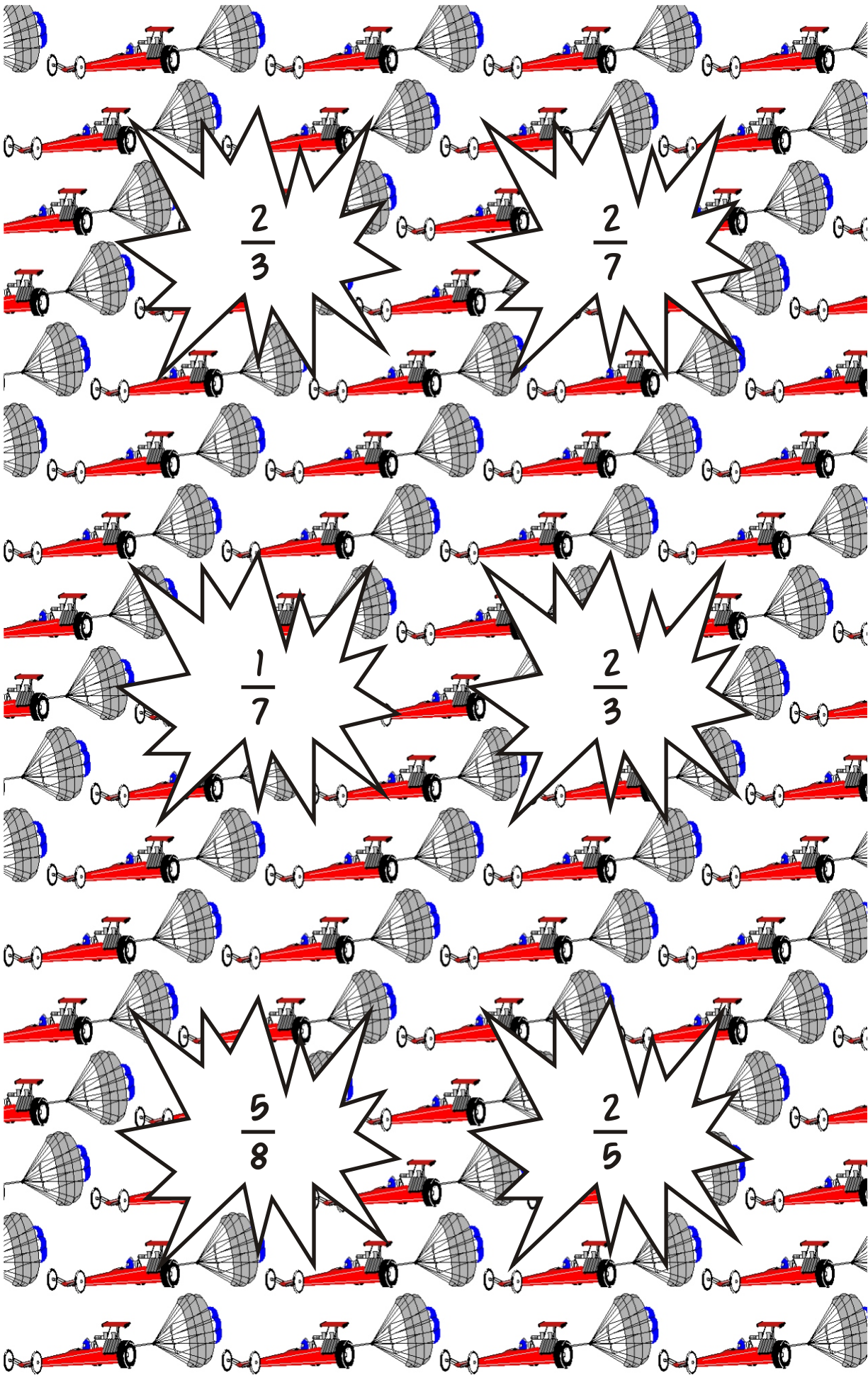
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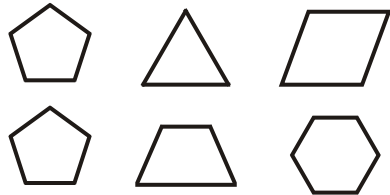
MRS. KELLY WROTE THE FOLLOWING NUMBERS ON INDEX CARDS: 12, 13, 17, 18, 21, 22, 24, 27, 30, AND 32. IF MRS. KELLY RANDOMLY CHOOSES 1 CARD, WHAT ARE THE CHANCES SHE WILL NOT CHOOSE A MULTIPLE OF 3?

IF THE SPINNER IS SPUN ONE TIME, WHAT IS THE PROBABILITY THAT THE ARROW WILL LAND ON A PRIME NUMBER?



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FROM THE SHAPES ABOVE,
WHAT IS THE PROBABILITY
OF RANDOMLY CHOOSING A
SHAPE THAT HAS MORE
SIDES THAN A
PARALLELOGRAM?

MRS. WADE WROTE THE
FOLLOWING NUMBERS ON
INDEX CARDS:

9, 10, 11, 21, 24, 30, 56

IF SHE RANDOMLY
CHOOSES ONE CARD, WHAT
ARE THE CHANCES SHE
WILL CHOOSE A NUMBER
THAT IS DIVISIBLE BY TWO?

ED'S TEACHER WROTE THE
FOLLOWING FRACTIONS ON
THE BOARD:

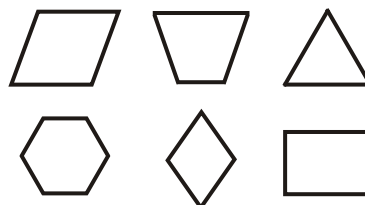
$\frac{2}{3}$, $\frac{3}{5}$, $\frac{3}{9}$, $\frac{4}{16}$, $\frac{6}{18}$.

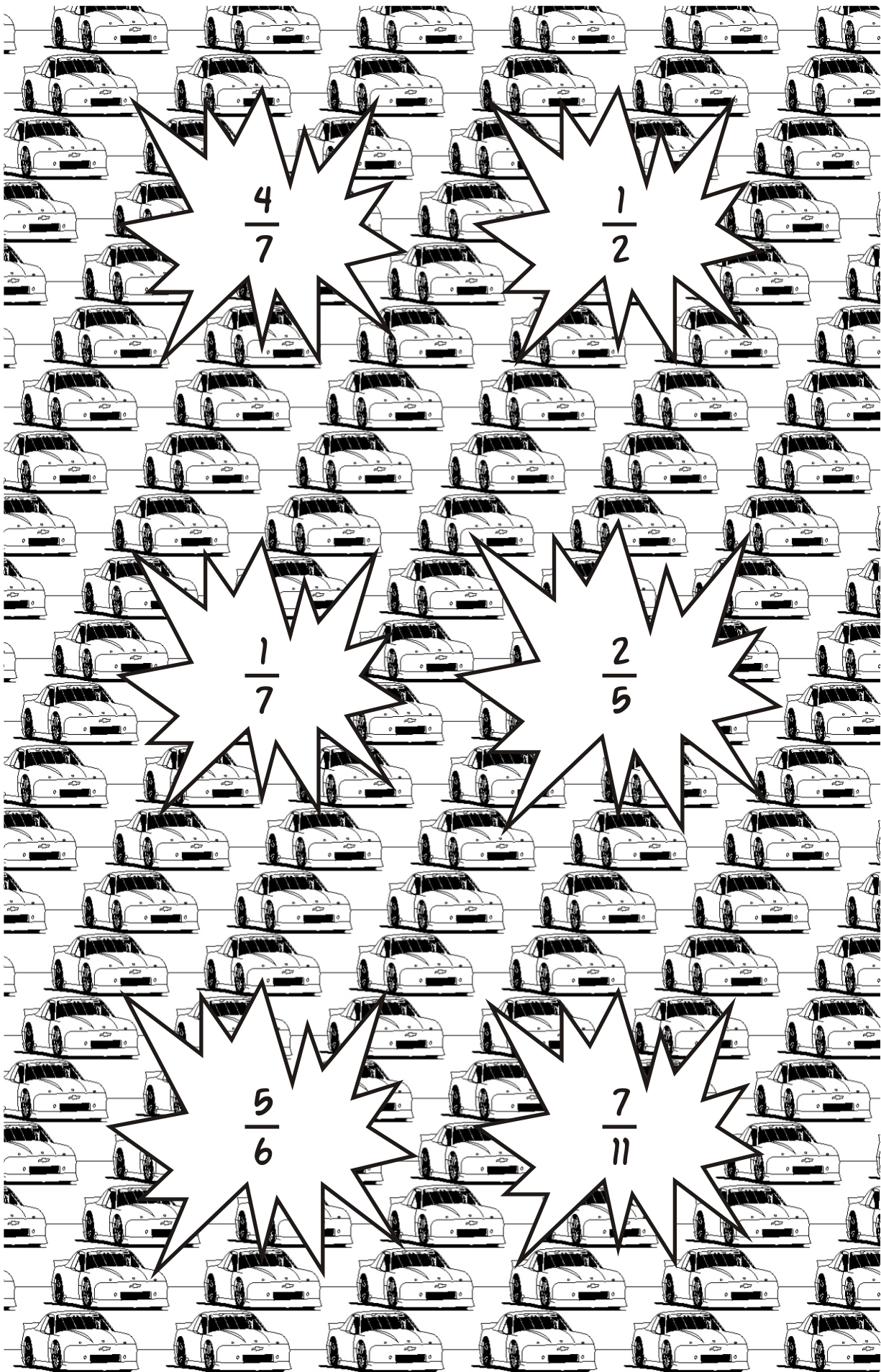
IF ED RANDOMLY CHOSE A
FRACTION, WHAT ARE THE
CHANCES HE WOULD
CHOOSE A FRACTION
EQUIVALENT TO $\frac{1}{3}$?

MR. HERNANDEZ BOUGHT A
LARGE BAG OF MARKERS
FOR THE 5TH GRADE
STUDENTS TO USE FOR AN
ART PROJECT. 12 MARKERS
WERE RED, 10 WERE BLUE,
9 WERE GREEN, 6 WERE
ORANGE, AND 5 WERE
YELLOW. WHAT ARE THE
CHANCES THAT A STUDENT
WOULD RANDOMLY CHOOSE
AN ORANGE MARKER?

MARILYN WAS ASKED TO
WRITE THE NUMBERS 10
THROUGH 20 ON INDIVIDUAL
INDEX CARDS. IF MARILYN
RANDOMLY CHOOSES AN
INDEX CARD, WHAT IS THE
PROBABILITY SHE WILL
CHOOSE A CARD
CONTAINING A COMPOSITE
NUMBER?

IF TOMAS RANDOMLY
CHOOSES ONE OF THE
SHAPES SHOWN BELOW,
WHAT ARE THE CHANCES
HE WILL CHOOSE A SHAPE
THAT HAS AT LEAST 1 PAIR
OF PARALLEL SIDES?





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JOSH WAS PLAYING A FRACTION CARD GAME WITH HIS FRIENDS.

JOSH HELD THE FOLLOWING CARDS IN HIS HAND: $\frac{7}{8}$, $\frac{5}{10}$, $\frac{4}{12}$, $\frac{4}{6}$, $\frac{5}{6}$. IF ONE OF THE PLAYERS RANDOMLY CHOOSES A CARD FROM JOSH'S HAND, WHAT ARE THE CHANCES HE WOULD CHOOSE A FRACTION LESS THAN $\frac{3}{4}$?

THE STUDENTS IN MR. COLE'S CLASS WERE ASKED TO RANDOMLY CHOOSE A COLORED COUNTER FROM A BAG TO USE IN A MATH GAME. THERE WERE 15 BLUE COUNTERS, 12 GREEN, 10 YELLOW, AND 7 RED. WHAT ARE THE CHANCES THAT A GREEN COUNTER WOULD RANDOMLY CHOSEN?

MARIA HAD THE FOLLOWING COINS IN THE BOTTOM OF HER PURSE: A DOZEN PENNIES, A HALF DOZEN NICKELS, 5 DIMES AND 2 QUARTERS. IF SHE RANDOMLY CHOOSES A COIN FROM HER PURSE, WHAT ARE THE CHANCES SHE WILL CHOOSE A DIME?

RUDY HAS 7 BLUE SHIRTS, 5 WHITE SHIRTS AND 6 GREEN SHIRTS. IF HE RANDOMLY SELECTS A SHIRT, WHAT IS THE PROBABILITY THAT HE WOULD NOT SELECT A GREEN SHIRT?

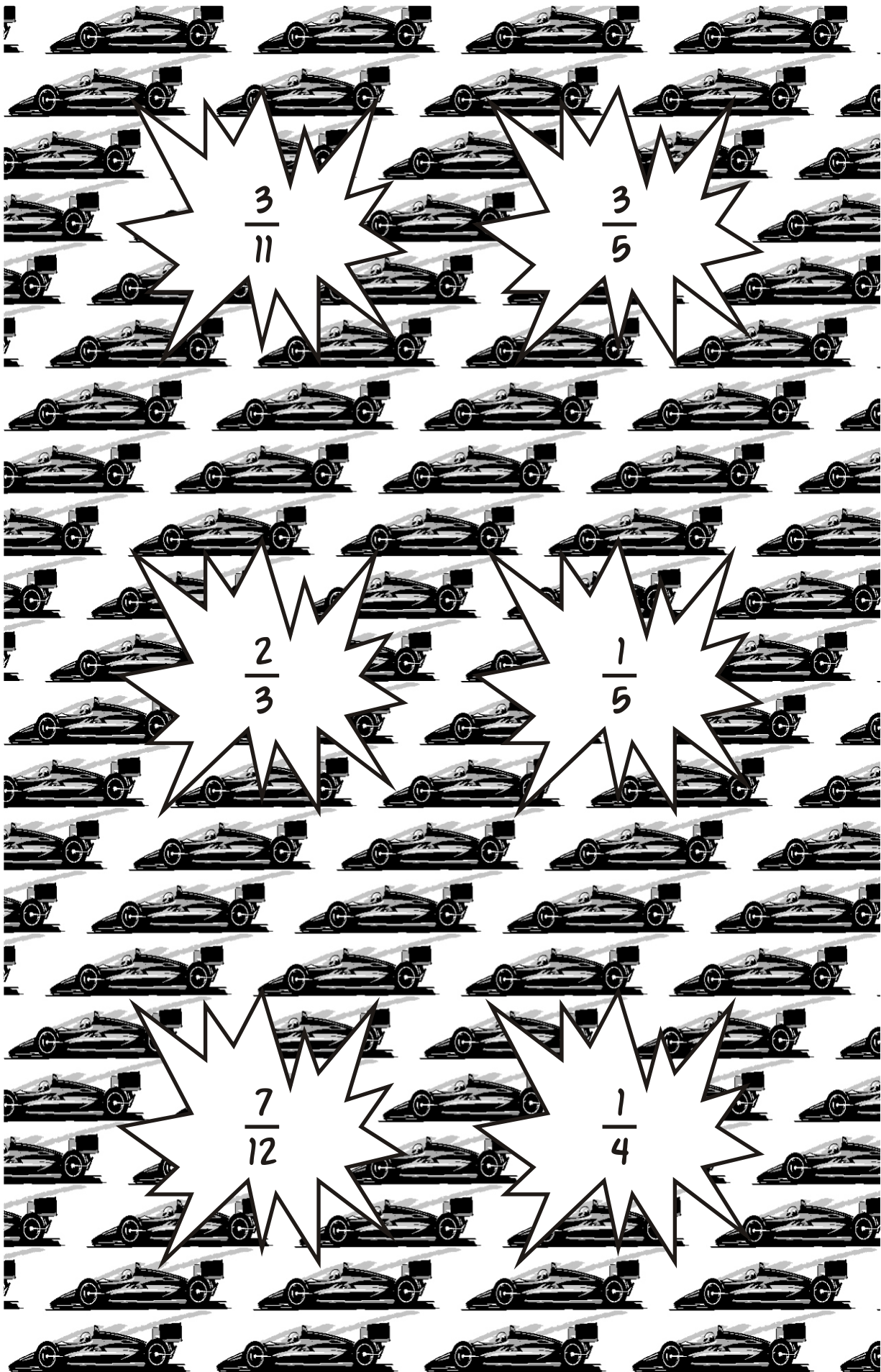
CATHY HAS 7 PAIRS OF WHITE SOCKS, 5 PAIRS OF BLACK SOCKS AND 4 PAIRS OF BLUE SOCKS. IF CATHY RANDOMLY CHOOSES A PAIR OF SOCKS, WHAT IS THE PROBABILITY SHE WOULD CHOOSE A BLUE PAIR?

JANIE HAS AN AQUARIUM WITH 3 YELLOW FISH, 5 STRIPED FISH AND 4 ORANGE FISH. IF JANIE RANDOMLY CHOOSES A FISH TO PUT IN HER OTHER AQUARIUM, WHAT IS THE PROBABILITY THAT SHE WOULD NOT CHOOSE A STRIPED FISH?

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T.J. KEEPS HIS SPARE CHANGE IN A JAR. THE JAR CONTAINS 12 NICKELS, 15 DIMES, 14 QUARTERS, AND 20 PENNIES. IF T.J. REACHES INTO THE JAR WITHOUT LOOKING, WHAT IS THE PROBABILITY HE WILL CHOOSE A QUARTER?

MRS. DAVILA HAD THE FOLLOWING ANGLES WRITTEN ON NOTE CARDS WHICH SHE HAD PLACED IN A BOX:



IF SHE REACHES INTO THE BOX AND RANDOMLY PULLS OUT A CARD, WHAT IS THE PROBABILITY SHE WILL CHOOSE AN ACUTE ANGLE?

JASON KEPT HIS VIDEO GAMES IN A BOX. HE HAD 5 SPORTS GAMES, 6 RACING GAMES, AND 4 STRATEGY GAMES. IF HE RANDOMLY CHOOSES A GAME FROM THE BOX, WHAT IS THE PROBABILITY HE WILL CHOOSE A RACING GAME?

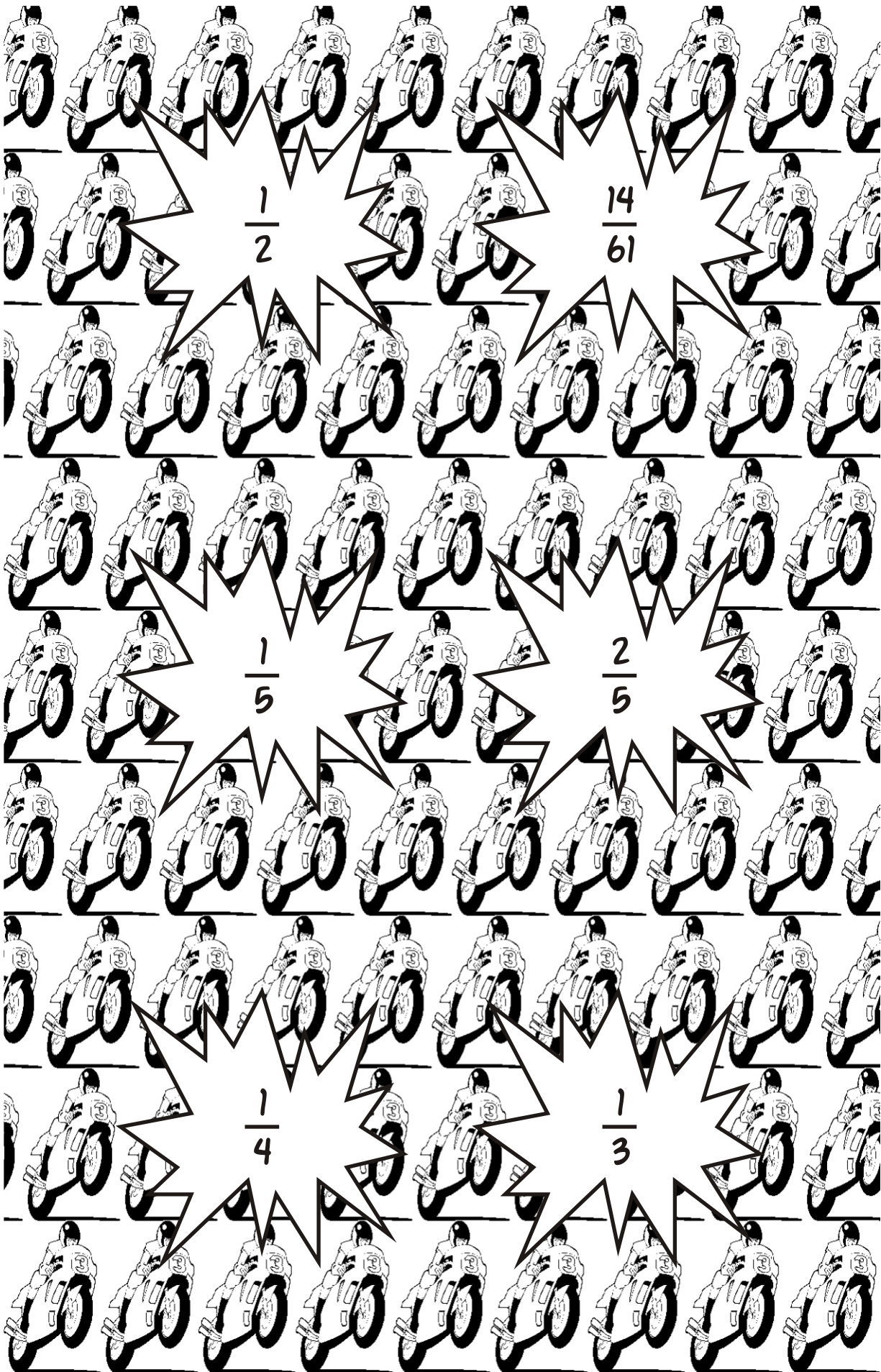
CHRIS HAD THE FOLLOWING FACTORS WRITTEN ON INDIVIDUAL CARDS:

1, 2, 3, 4, 6.

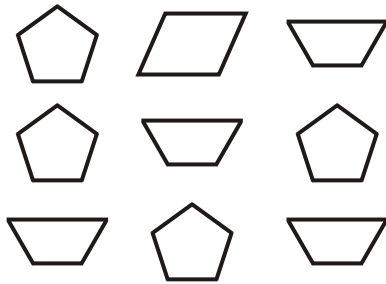
IF HE RANDOMLY CHOOSES A CARD, WHAT IS THE PROBABILITY HE WILL NOT CHOOSE A COMMON FACTOR OF 12 AND 18?

RAUL BROUGHT A SACK OF FRUIT TO SCHOOL TO SHARE WITH HIS FRIENDS. HE HAD 6 ORANGES, 3 BANANAS, 5 APPLES, AND 7 TANGERINES. IF RAUL RANDOMLY SELECTS A PIECE OF FRUIT FROM THE SACK, WHAT IS THE PROBABILITY HE WILL CHOOSE A TANGERINE?

EMILY BROUGHT A COOLER FILLED WITH DRINKS TO THE SCHOOL PICNIC. SHE BROUGHT A DOZEN COKES, 5 SPRITES, 7 BOTTLED WATERS, AND 4 ICED TEAS. IF A DRINK IS RANDOMLY CHOSEN, WHAT IS THE PROBABILITY THAT A BOTTLED WATER WILL BE CHOSEN?



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FROM THE SHAPES ABOVE,
WHAT IS THE PROBABILITY OF
RANDOMLY CHOOSING A
PENTAGON?

MRS. REED DREW SEVERAL
GEOMETRIC SHAPES ON
CARDS. SHE DREW A
SQUARE, PENTAGON, HEXAGON,
TRIANGLE, OCTAGON, AND A
RHOMBUS. IF SHE RANDOMLY
CHOOSES A CARD WITHOUT
LOOKING, WHAT IS THE
PROBABILITY THE CARD WILL
HAVE A SHAPE ON IT THAT
HAS MORE THAN 4 SIDES?

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MEGAN'S MOTHER
OFFERED TO FIX
SANDWICHES FOR MEGAN
AND HER FRIENDS. SHE
HAD 2 KINDS OF BREAD
AND 3 KINDS OF MEAT.
HOW MANY POSSIBLE
SANDWICH COMBINATIONS
COULD MEGAN'S MOTHER
MAKE?

SUSAN BROUGHT SEVERAL
COOKIES TO SCHOOL: 1
SUGAR COOKIE, 1 PEANUT
BUTTER COOKIE, 1
OATMEAL COOKIE, 1
CHOCOLATE CHIP COOKIE,
AND 1 LEMON COOKIE.
HOW MANY DIFFERENT
COMBINATIONS ARE
POSSIBLE WITH ONLY
CHOOSING 2 COOKIES?

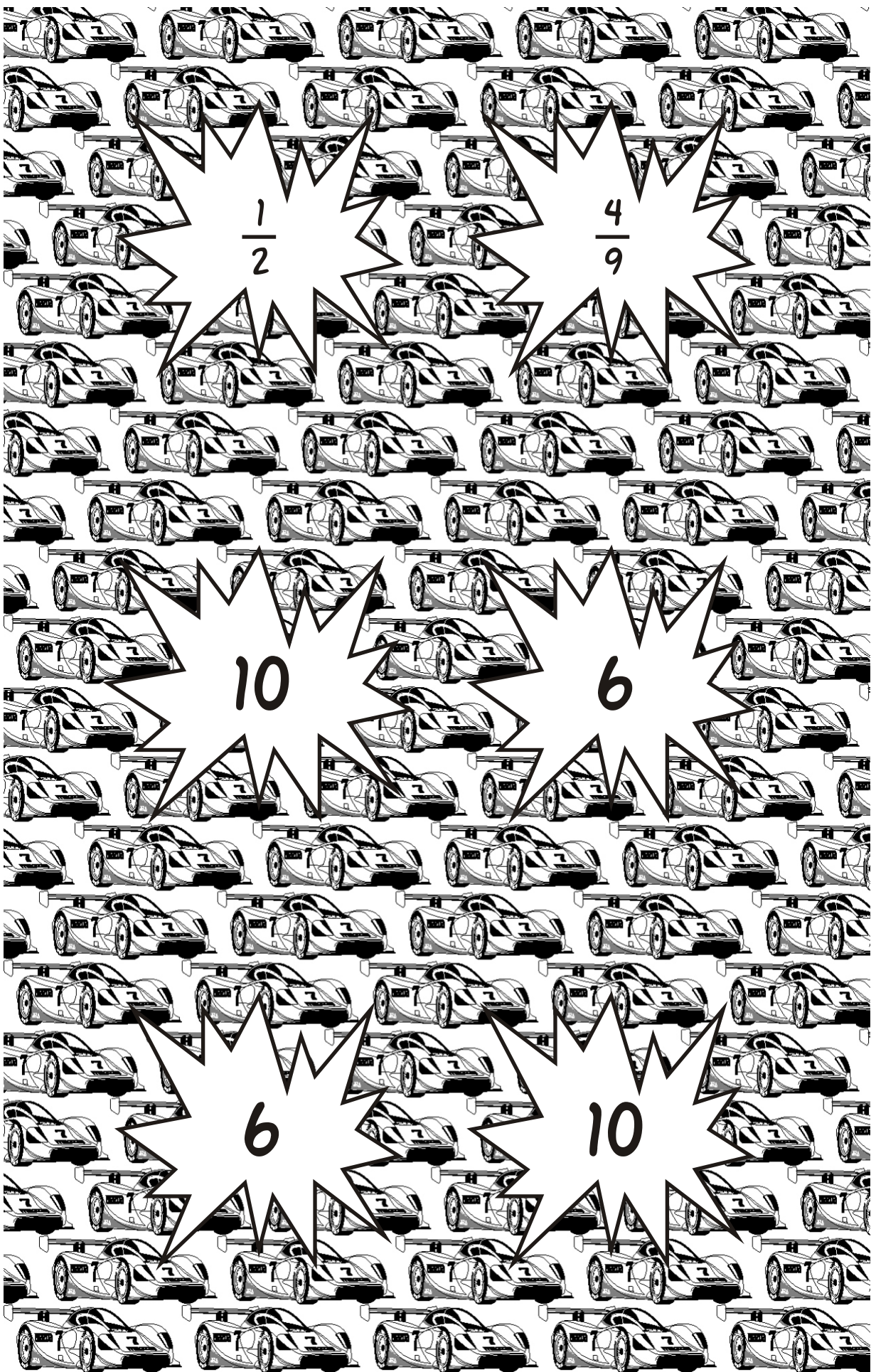
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SAM'S MOTHER BROUGHT
VANILLA ICE CREAM FOR
THE STUDENTS IN SAM'S
CLASS. SHE ALSO
BROUGHT THE FOLLOWING
TOPPING: CHOCOLATE
CHIPS, SPRINKLES,
STRAWBERRIES, WHIPPED
CREAM, AND CHOCOLATE
SYRUP. HOW MANY
DIFFERENT
COMBINATIONS CAN THE
STUDENTS MAKE WITH 2
TOPPING?

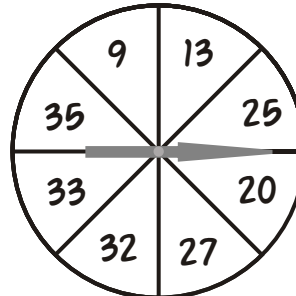
JACK HAS 1 RED NUMBER
CUBE, 1 BLUE NUMBER
CUBE, 1 YELLOW NUMBER
CUBE AND 1 ORANGE
NUMBER CUBE IN HIS
DESK DRAWER. IF HE
RANDOMLY CHOOSES 2
NUMBER CUBES, HOW
MANY DIFFERENT
COMBINATIONS ARE
POSSIBLE?

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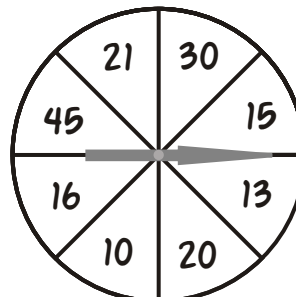
DARCI HAS A NUMBER CUBE WITH THE NUMBERS 1 THROUGH 6 WRITTEN ON IT. WHAT IS THE PROBABILITY SHE COULD ROLL A FACTOR OF 12?

IF THE SPINNER IS SPUN ONE TIME, WHAT IS THE PROBABILITY THAT THE ARROW WILL LAND ON AN ODD NUMBER?

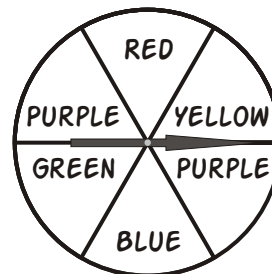


JULIE HAS A BAG CONTAINING 4 GREEN, 2 BLUE, 5 YELLOW, AND 3 ORANGE TICKETS. IF SHE RANDOMLY CHOOSES ONE TICKET FROM THE BAG, WHAT IS THE PROBABILITY THAT THE TICKET WILL BE BLUE?

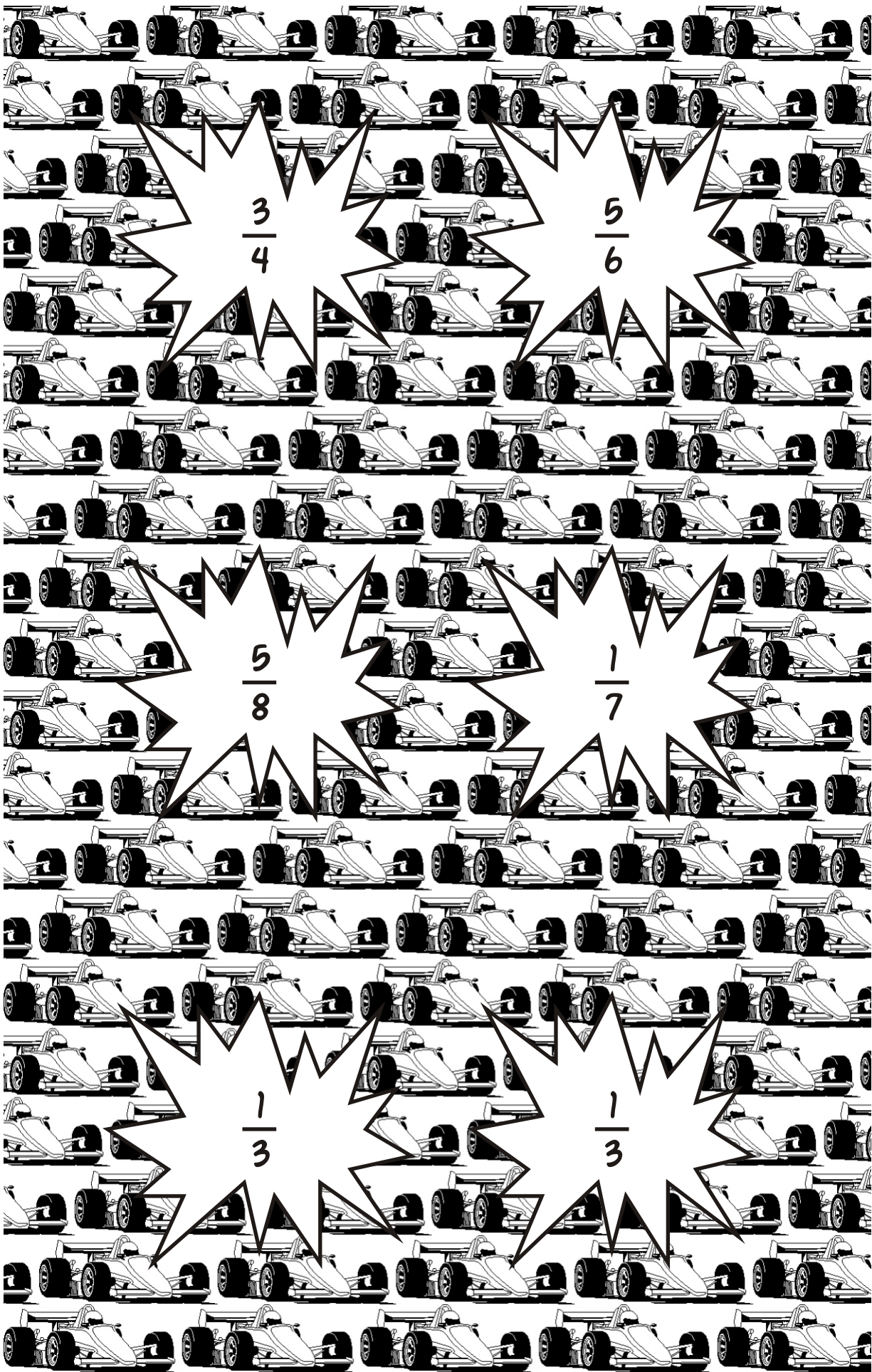
IF ABBEY SPINS THE SPINNER BELOW ONE TIME, WHAT IS THE PROBABILITY THAT THE ARROW WILL LAND ON A MULTIPLE OF 5?



KAREN HAS A BOX OF COLORED PENCILS: 10 YELLOW, 8 BLUE, AND 12 RED. IF SHE REACHES INTO THE BOX WITHOUT LOOKING, WHAT IS THE PROBABILITY SHE WILL CHOOSE A YELLOW PENCIL?



IF THE SPINNER IS SPUN ONE TIME, WHAT IS THE PROBABILITY THAT THE ARROW WILL LAND ON PURPLE?



CHANCE RACEWAY



START



FINISH

**PASSED 2 CARS!
MOVE UP 2 OR
EACH
OPPONENT
BACK 1**



**TOO SLOW
THROUGH
TURN!
GO BACK
1**



PIT STOP

LOSE A TURN



OIL SPILL!



GO BACK 3

**RECORD
TIME
THROUGH
TURN!
MOVE
UP
1**



**YOU'RE
FLYING!**

**MOVE UP
2 SPACES**

