

MEASUREMENT

Area, Perimeter, Time, Measurement Conversions

PERIMETER & AREA BATTLE

Each player rolls one die to determine their rectangle for the round. For example: If player 1 rolls 1, he uses the 1st rectangle on the left and if player 2 rolls 3, she uses the 3rd rectangle on the right. 1 player spins the spinner to find out what will determine the winning rectangle for the round. Players move their chips one space for every battle won. Both players move 1 space in a tie.

Player 1
START

For each battle, roll a die and you calculate the perimeter and area. Record it found.

Player 2
START

Spinner:

- Greatest Area
- Smallest Perimeter
- Greatest Perimeter
- Smallest Area

Rectangles and Dice:

Player 1 Rectangles (Left)	Dice	Player 2 Rectangles (Right)
18 in. 12 in.	1	21 in. 8 in.
32 in. 16 in.	2	28 in. 12 in.
20 in. 9 in.	3	43 in. 17 in.
34 in. 8 in.	4	16 in. 16 in.
23 in. 1 in.	5	

Record Sheet:

Player 1

Dimensions:	Answer:

4TH GRADE

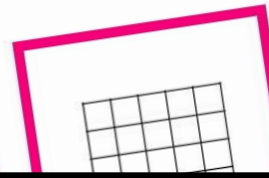
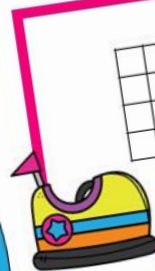
No Prep Games **MARVEL Math**

9 Fun Games

for easy-to-use math stations

PERIMETER & AREA BUMP

Spin the spinner to land on a formula for perimeter or area. You may place a chip on the rectangle that formula matches. Alternate turns with your partner. If your partner has 1 chip on a rectangle, you may replace that chip. When a player has 2 chips on a rectangle, that rectangle is locked. Play until time is called or all of the rectangles are locked. The winner is the player who controls the most rectangles.



Games are Print & Play

No cutting needed

ROLL & SPIN RECTANGLES

Measuring Sides to find Perimeter & Area

Roll a die to select a rectangle.
Spin the spinner to select a
question. Use a ruler to measure
your rectangle and answer the
question. If you are correct, you
may move one space on the
game board.



1 What is the perimeter
of your rectangle?

2 What is the area
of your rectangle?

3 You cut your rectangle
in half. What is the area
of one-half of your
rectangle?

4 You make the length
2 cm longer and the
width 2 cm wider. What
is the new perimeter of
your rectangle?

5 What is the difference
between the perimeter of
your rectangle and the
perimeter of a square with
a side length of 12 cm?

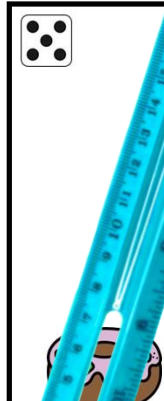
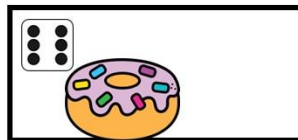
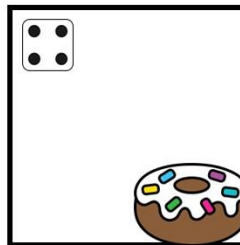
START



ROLL & SPIN RECTANGLES

Measuring Sides to find Perimeter & Area

Measure rectangles to the nearest cm.

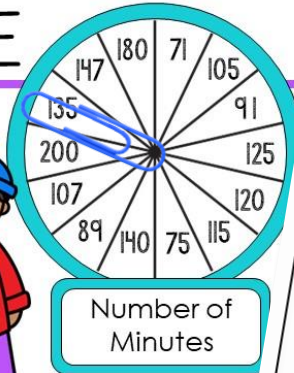


Fun & Engaging Games

Your students will love playing

TIME MACHINE

Spin the spinner and convert the number of minutes to hours and minutes. Find a box below with the correct answer. Write the number of minutes and your initials in that box. Build a time machine by connecting 5 boxes in a row, column or diagonal. Alternate turns with your partner. The first player to connect 5 boxes wins!



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1 hr. 29 min.	1 hr. 47 min.	3 hrs. 20 min.	1 hr. 15 min.	2 hrs. 27 min.	1 hr. 31 min.	45 min.	2 hr.
1 hr. 55 min.	1 hr. 11 min.	2 hrs.	2 hrs. 27 min.	2 hrs. 20 min.	3 hrs.		1 hr.
1 hr. 45 min.	1 hr. 31 min.	3 hrs.	1 hr. 55 min.	1 hr.			
1 hr. 55 min.	1 hr. 31 min.	1 hr. 15 min.	3 hrs. 20 min.		2 hrs. 20 min.		
2 hrs. 5 min.	2 hrs. 27 min.	2 hr. 15 min.	2 hrs.		3 hrs.		
3 hrs.	1 hr. 29 min.	3 hrs. 20 min.	3 hr.		1 hr. 31 min.		
2 hrs. 20 min.	2 hrs. 5 min.	1 hr. 11 min.			2 hrs. 27 min.	1 hr. 47 m.	

ELAPSED TIME

1. Roll the die to select a clock to use as the START time for your problem.
2. Roll the die again to pick a problem.
3. Solve the problem and have your partner check your work using the key.
4. If you are correct, you may roll the die again and move forward that many spaces on the game board.

I swam for 105 minutes. What time did I finish?

I practiced soccer for 75 minutes. What time did I finish?

I read for 120 minutes. What time did I finish?

I ran for 38 minutes. What time did I finish?

I watched a movie that lasted for 124 minutes. What time did it end?

Color and Blackline Versions

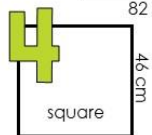
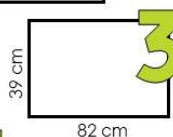
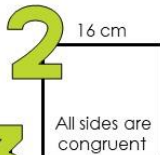
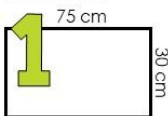
For every game



PRICKLY PROBLEMS

2-STEP PROBLEM SOLVING WITH CONVERSIONS

Spin the problem spinner to select a word problem to solve. Spin the number spinner to select the problem details or model. Solve the problem and have your partner check your work using the key. If you are correct, you may spin the number spinner again and move that many spaces on the game board.

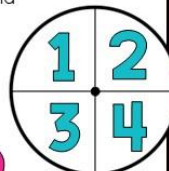


1 Start: 2 gallons
End: 5 quarts

2 Start: 9 pints
End: 7 cups

3 Start: 2 liters
End: 1,100 milliliters

4 Start: 6 quarts
End: 3 pints



How much of a 3 meter ribbon would be left after going around the perimeter of the rectangle?

How much punch was consumed in each of these scenarios?

Find the difference in length between the 2 organisms being compared.

What is the total weight or mass of both items in each group?

1 Bee: 14 mm
Dragonfly: 5 cm

2 Cat: 19 inches
Dog: 3 feet

3 Snake: 2 yards
Lizard: 2 feet

4 Rabbit: 15 inches
Cow: 8 feet

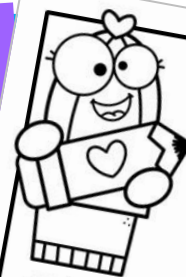


1 Item 1: 22 oz
Item 2: 3 lbs

2 Item 1: 3 kg
Item 2: 2,019 g

3 Item 1: 3,500 lbs
Item 2: 2 T

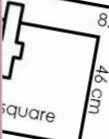
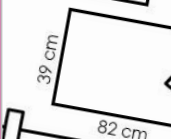
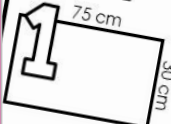
4 Item 1: 15g
Item 2: 2,070 mg



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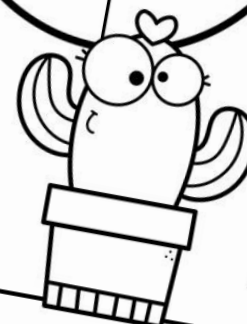
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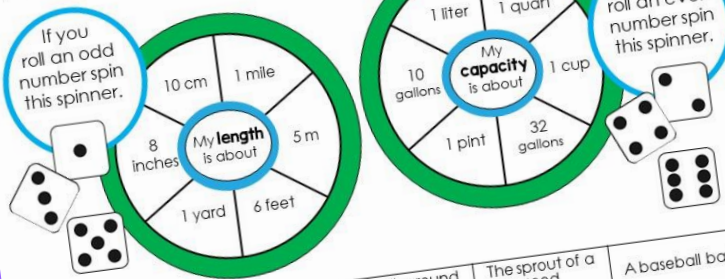
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Many Games Have Keys

to help you make self-checking math stations

GUESS MY MEASURE

Roll the die to see which spinner you will spin & which rows on the gameboard you will be able to play in for that round. Spin the spinner and find an item on the board that is approximately that measurement. You may place a marker on 1 item per turn. If that item is taken, you may replace that players chip with your own. Take turns with your partner. The first player to get 3 boxes in a row wins!!!



LENGTH	Height of a 1-story house	Ice cream cone	A walk around the zoo	The sprout of a seed	A baseball bat
	A wagon	Height inside a tree house	Small teddy bear	A small plant	A short hike
	Oil container	Juice box	Ice cream container	Trash can	Bottle of Water
CAPACITY	Fish tank	Bottle of soda	Tea cup	Personal size yogurt	large coffee container

GUESS MY MEASURE

KEY

5 m	10 cm	1 mile	10 cm	1 yard
1 yard	6 feet	8 inches	8 inches	1 mile
1 cup	1 pint	32 gallons	1 liter or 1 quart	
1 liter or 1 quart	1 cup	1 cup	1 cup	1 pint

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Games Cover These Topics

- ✓ Area and Perimeter
- ✓ Converting Measurements
- ✓ Elapsed Time Word Problems
- ✓ Converting Units of Time
- ✓ Relative Sizes of Measurements

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

