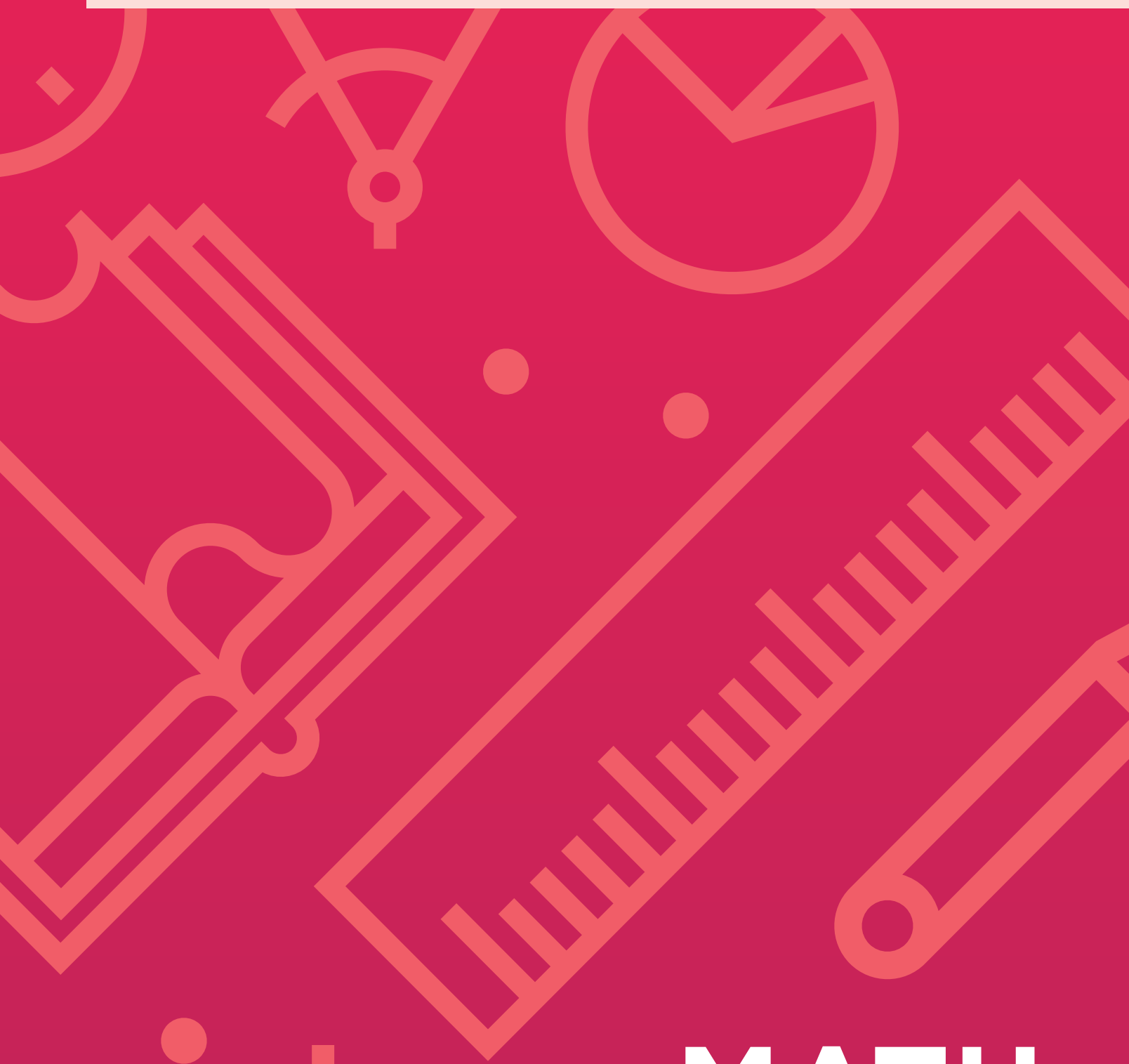




CALVERT™
PUBLICATIONS

2nd grade | Unit 9



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MATH

AREA AND SQUARE MEASUREMENT

MATH 209

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Author:

Carol Bauler, B.A.

Editor:

Alan Christopherson, M.S.

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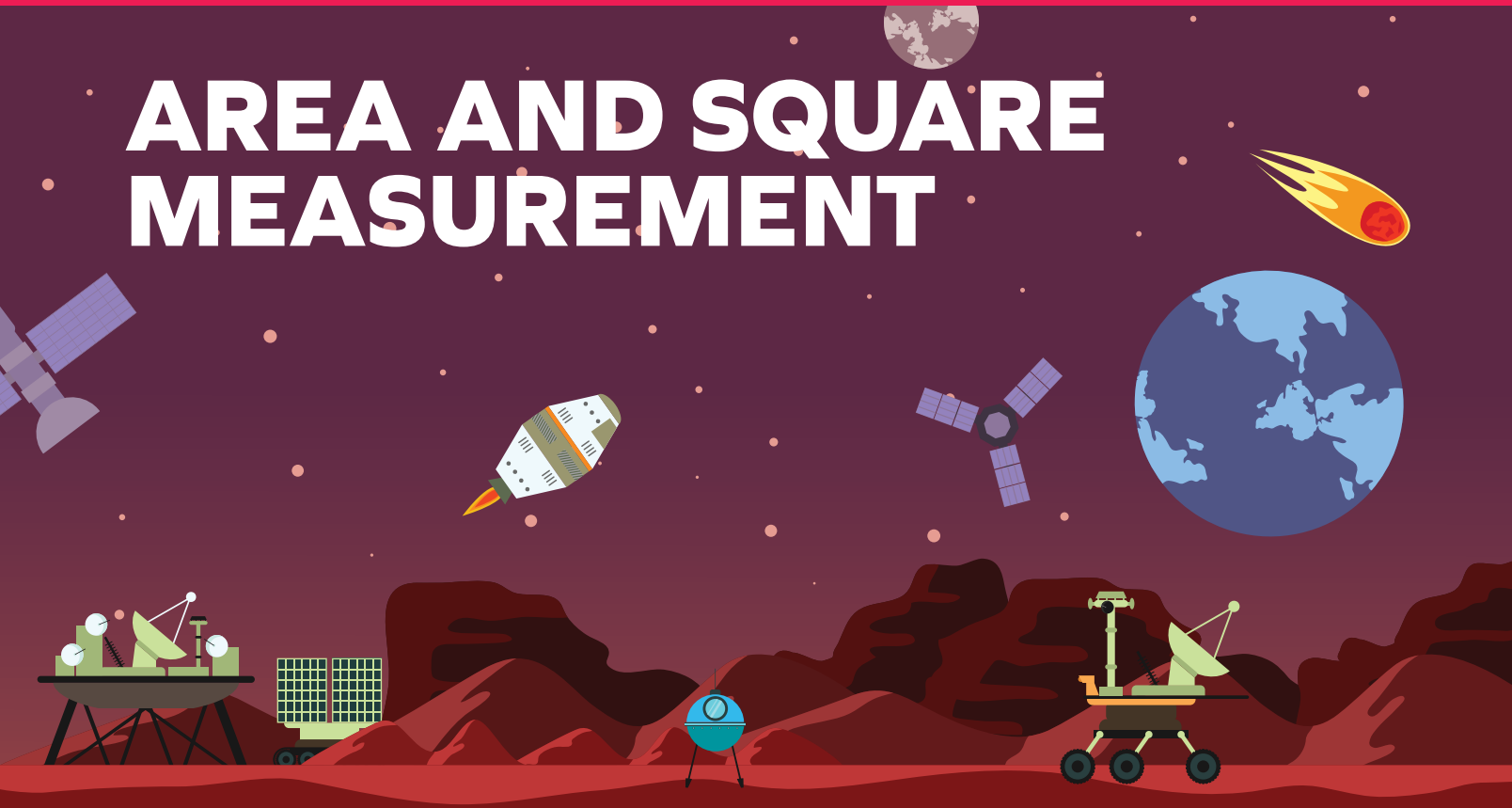
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AREA AND SQUARE MEASUREMENT



Learn with our friends! They'll guide you through the workbooks and keep the scores for you.



Objectives

Read these objectives. They will tell what you will be able to do when you have finished this workbook.

1. I can learn about area and square measurement.
2. I can add three numbers with carrying to tens place.
3. I can collect data, and post it to a bar graph.
4. I can measure to the quarter inch.
5. I can learn directions for north, south, east, and west.
6. I can learn to change coins to cents.
7. I can review and practice the things I have learned.



1. PERIMETER AND AREA

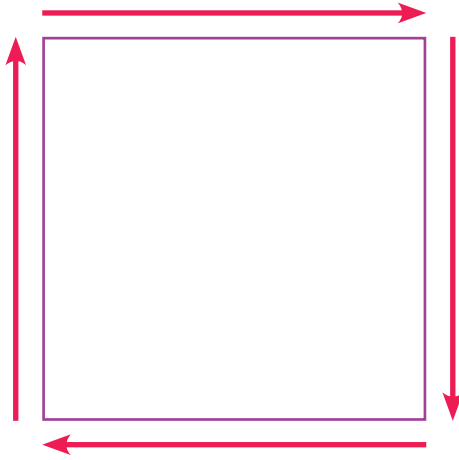
Perimeter is the distance around a flat shape.



Name these flat shapes and measure their perimeters.

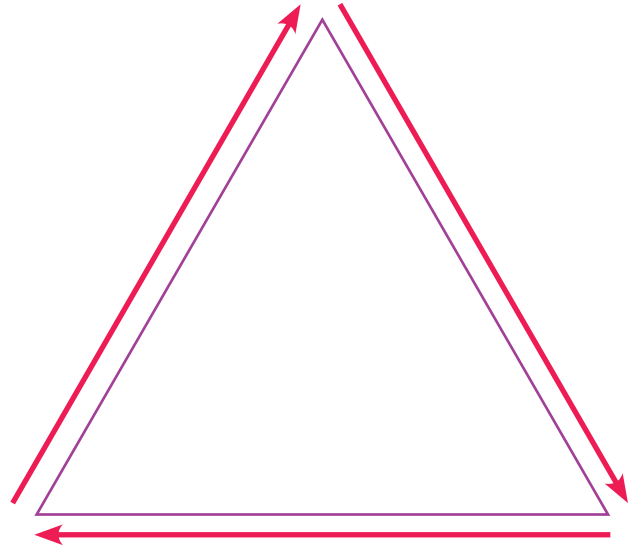
Label your answers.

1.1



shape _____

perimeter _____



shape _____

perimeter _____



shape _____

perimeter _____

A rectangle has length and width.

1.2 The rectangle you found has ...

a length of _____ inches and a width of _____ inches.

We can measure the surface or area of a flat shape.

Place your finger at A on the rectangle.

Move your finger from A to B, B to C, C to D, and D to A.

This is the perimeter of the rectangle.

Place your hand flat on the rectangle.

Cover the surface of the rectangle.

This is the area of the rectangle.

We measure perimeter in linear units.

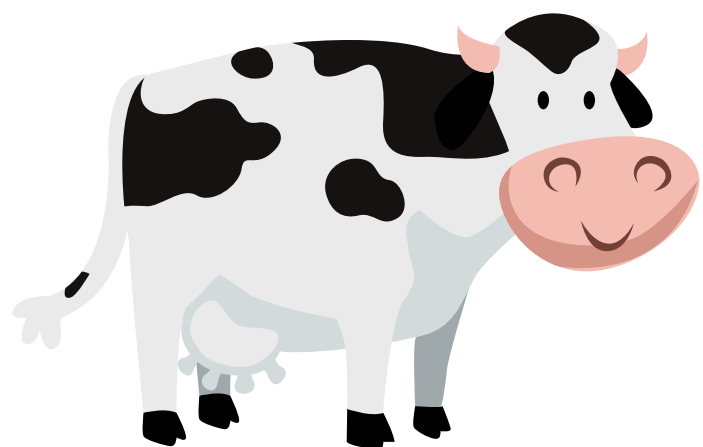
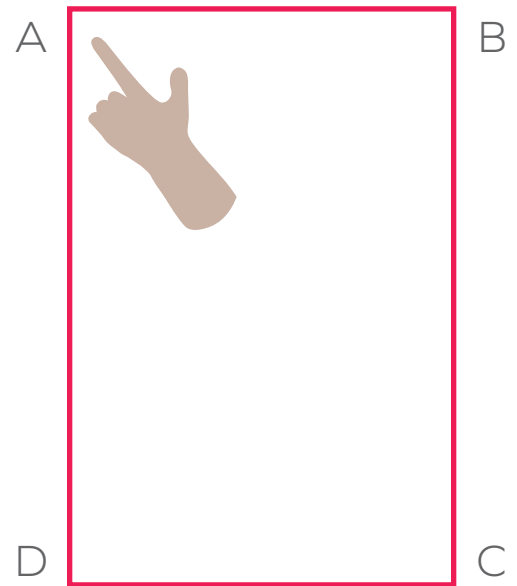
This is a linear inch.

Use a crayon. Draw over the linear inch.

We measure area in square inches.

This is a square inch.

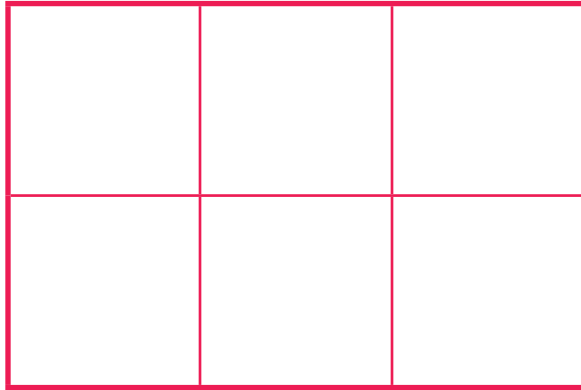
Use your crayon. Color the square inch.





Write the answer.

1.3



How many linear inches can you count around the outside? _____ linear inches

The perimeter of the rectangle is _____ linear inches.

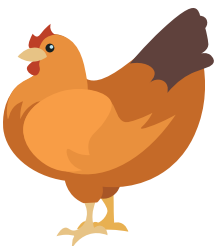
How many square inches can you count?

_____ square inches

The area of the rectangle is _____ square inches.

Can you measure linear inches on a ruler? _____

Can you measure square inches on a ruler? _____



Place Value



Write a number with ...

1.4

4 in the tens place, and 5 in the ones place _____

3 in the ones place, 2 in the hundreds place,
and 7 in the tens place _____

6 in the hundreds place, 3 in the ones place,
and 0 in the tens place _____



Use the number symbols to write the largest and smallest numbers.

1.5

4, 6 largest _____ smallest _____

5, 3 largest _____ smallest _____

3, 8, 7 largest _____ smallest _____

8, 0, 7 largest _____ smallest _____

1.6

Write how many. Write the value.

	hundreds	tens	ones
275 =	_____ +	_____ +	_____
=	_____ +	_____ +	_____

576 =	_____ +	_____ +	_____
=	_____ +	_____ +	_____

	hundreds	+	tens	+	ones
34 =	_____	+	_____	+	_____
=	_____	+	_____	+	_____
907 =	_____	+	_____	+	_____
=	_____	+	_____	+	_____
740 =	_____	+	_____	+	_____
=	_____	+	_____	+	_____
85 =	_____	+	_____	+	_____
=	_____	+	_____	+	_____



Addition

We can carry when we add three numbers.

Add the ones. **$4 + 3 + 6 = 13$**

Think how many tens and how many ones.

$13 = 1 \text{ ten and } 3 \text{ ones}$

Write the ones and carry the tens.

Add the tens.

$$\begin{array}{r}
 \boxed{1} \\
 24 \\
 13 \\
 + 26 \\
 \hline
 63
 \end{array}$$



Add. Follow the steps.

1.7

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
43	28	37	75	46	36
25	46	52	24	55	40
+ 62	+ 23	+ 84	+ 53	+ 42	+ 38
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
46	29	70	81	65	14
23	33	42	25	38	18
+ 75	+ 51	+ 69	+ 47	+ 13	+ 37
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
54	47	95	22	93	58
70	32	15	36	27	35
+ 28	+ 56	+ 27	+ 48	+ 26	+ 22
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>



Add.

1.8

23	52	241	560	632
+ 45	+ 71	+ 28	+ 214	+ 206
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

$2 + 4 = \underline{\quad}$ $9 + 8 = \underline{\quad}$ $7 + 6 = \underline{\quad}$

$5 + 3 = \underline{\quad}$ $9 + 2 = \underline{\quad}$ $6 + 6 = \underline{\quad}$

$3 + 5 = \underline{\quad}$ $4 + 8 = \underline{\quad}$

<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>
46	57	256	537	265
+ 75	+ 39	+ 328	+ 385	+ 476
<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>

3	4	42	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>	<input style="width: 20px; height: 20px; border: 1px solid red;" type="text"/>
7	9	35	73	56
+ 6	+ 8	+ 12	+ 21	+ 14
<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>	<hr style="border: 0.5px solid black;"/>

$87 + 36 =$

$468 + 230 =$

$42 + 33 + 57 =$



Before you take the Self Test, study what you have read and done. The Self Test will check what you remember.

SELF TEST 1

Each answer = 1 point, except where otherwise noted

1.01 Measure the rectangle. Label your answers.



length _____ width _____

perimeter _____ area _____

1.02 Write how many. Write the value.

 hundreds tens ones

365 = _____ + _____ + _____

 = _____ + _____ + _____

1.03 Circle the numbers in the tens place.

7 8 3

4 6 9

1.04 Add. (2 points each)

$$\begin{array}{r} \square \\ 26 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 122 \\ + 238 \\ \hline \end{array}$$

$$\begin{array}{r} \square \square \\ 263 \\ + 577 \\ \hline \end{array}$$

$$\begin{array}{r} \square \square \\ 458 \\ + 356 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 36 \\ 42 \\ + 78 \\ \hline \end{array}$$

$$61 + 46 + 37 =$$



Teacher Check

Initial Date



My Score



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804 N. 2nd Ave. E.
Rock Rapids, IA 51246-1759

877-878-8045
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