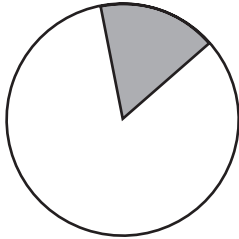


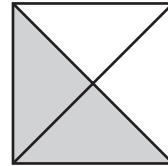
# Exploring One Half

Circle the pictures that show one half.

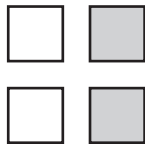
1.



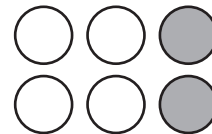
2.



3.



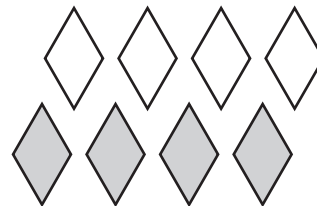
4.



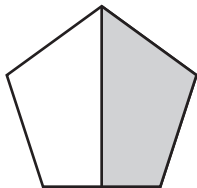
5.



6.



7.



8.

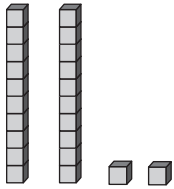


9. Draw a picture that shows one half.

# Finding Half: Even or Odd

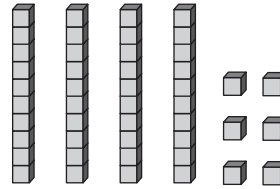
How much is half?

1.



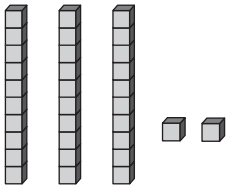
Half of 22 is \_\_\_\_\_.

2.



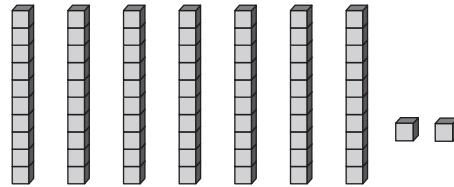
Half of 46 is \_\_\_\_\_.

3.



Half of 32 is \_\_\_\_\_.

4.



Half of 72 is \_\_\_\_\_.

**Solve.**

5. I am an odd number. I am half of 54. What number am I?

\_\_\_\_\_

6. I am an even number. Half of me is 35. What number am I?

\_\_\_\_\_

7. I am an even number. Half of me is 9. What number am I?

\_\_\_\_\_

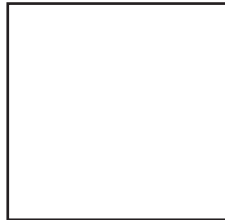
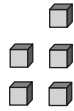
8. I am an odd number. Half of me is  $14\frac{1}{2}$ . What number am I?

\_\_\_\_\_

# Doubling Numbers

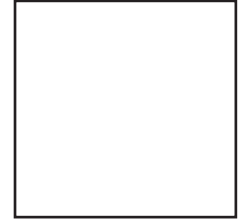
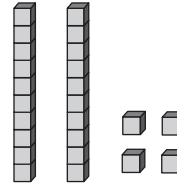
How much is double the number?  
Draw symbols if you want.

1.



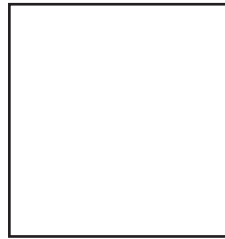
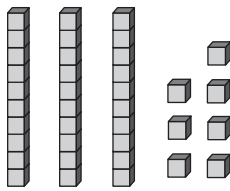
5 doubled is \_\_\_\_\_.

2.



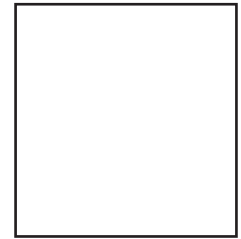
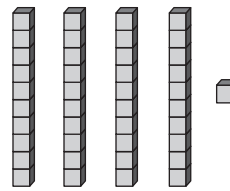
24 doubled is \_\_\_\_\_.

3.



37 doubled is \_\_\_\_\_.

4.



41 doubled is \_\_\_\_\_.

What numbers are missing from each table? Write the rule.

5.

	18
	20
11	22
12	24
	26
14	28
15	

Rule: \_\_\_\_\_

6.

9	
20	41
17	
	9
12	25
30	61
19	

Rule: \_\_\_\_\_

# Halving and Doubling Time and Numbers

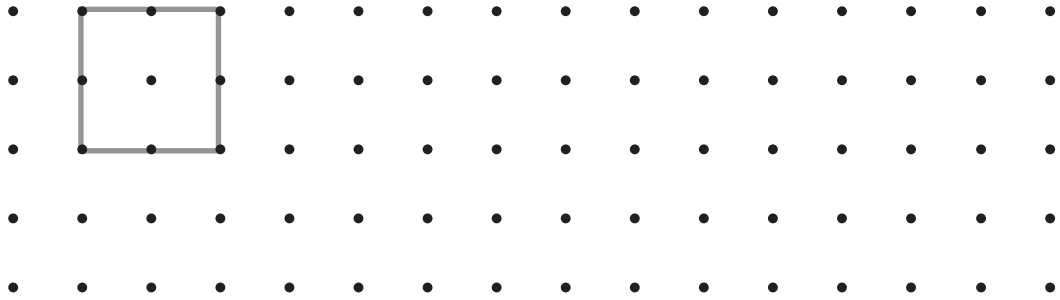
What is missing?

	Whole	Half
1.	26	13
2.	40	
3.		24
4.		29
5.	62	
6.		45
7.	22 minutes	_____ minutes
8.	30 minutes	_____ minutes
9.	_____ minutes	27 minutes
10.	_____ minutes	30 minutes
11.	2 hours	_____ hour
12.	_____ hours	10 hours

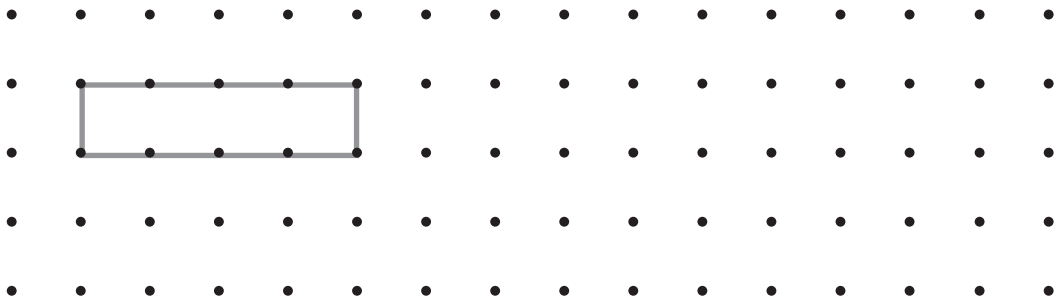
# Doubling Length

Draw a new figure. Double the sides of the gray figure.

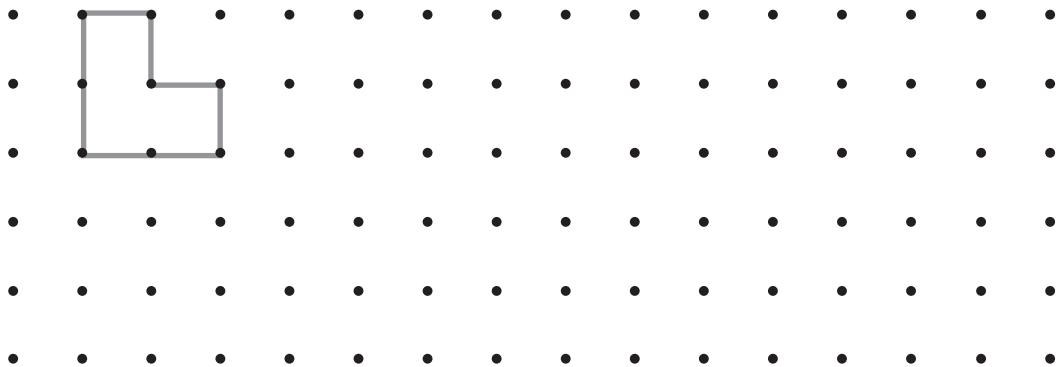
1.



2.

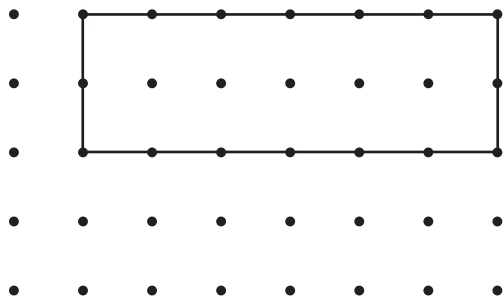


3.

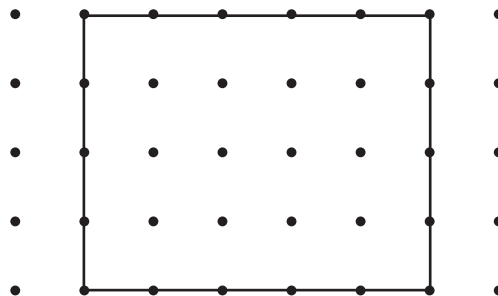


# Thirds and Fourths

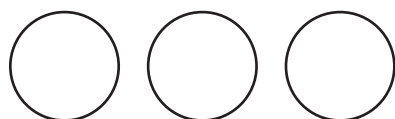
1. Color  $\frac{1}{3}$ .



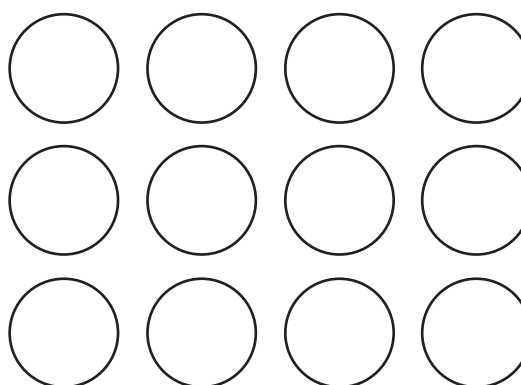
2. Color  $\frac{1}{4}$ .



3. Color  $\frac{1}{3}$ .

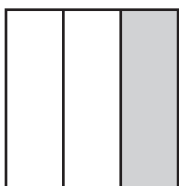


4. Color  $\frac{1}{4}$ .



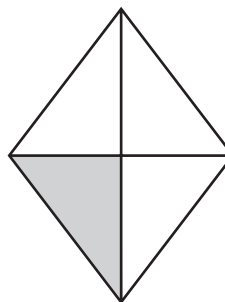
What part is colored? Write the fraction.

5.



\_\_\_\_\_

6.

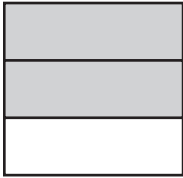


\_\_\_\_\_

# Fair Shares

Write each fraction.

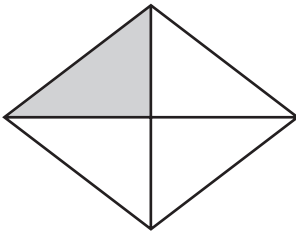
1.



What part is gray? \_\_\_\_\_

What part is white? \_\_\_\_\_

2.

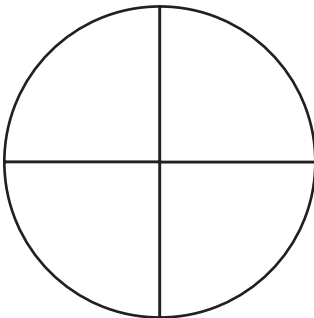


What part is gray? \_\_\_\_\_

What part is white? \_\_\_\_\_

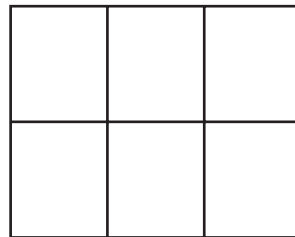
Color to show each fraction.

3.



$\frac{4}{4}$

4.



$\frac{1}{6}$

# Exploring Fractions with Cuisenaire® Rods

The orange rod equals 1. How much is one of the other rods? Write the fraction.

1. 

orange				
red	red	red	red	red

One red rod is \_\_\_\_\_.

2. 

orange									
W	W	W	W	W	W	W	W	W	W

One white rod is \_\_\_\_\_.

3. 

orange									
yellow					yellow				

One yellow rod is \_\_\_\_\_.

Write  $<$ ,  $>$ , or  $=$ .

orange									
yellow					yellow				
red		red		red		red		red	
W	W	W	W	W	W	W	W	W	W

4.  $\frac{1}{2}$  ○  $\frac{1}{5}$

yellow			
--------	--	--	--

red	
-----	--

5.  $\frac{2}{10}$  ○  $\frac{1}{5}$

W	W
---	---

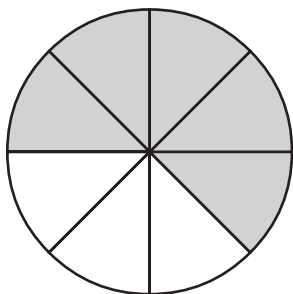
red	
-----	--



# More Fractions

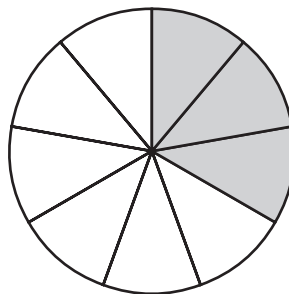
What part is colored? Write the fraction.

1.



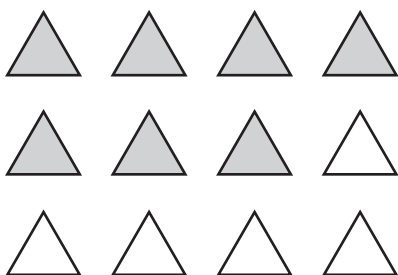
\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_

4.

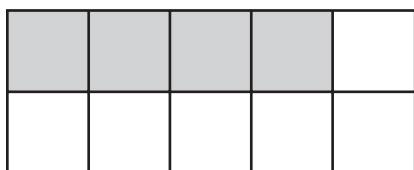


\_\_\_\_\_

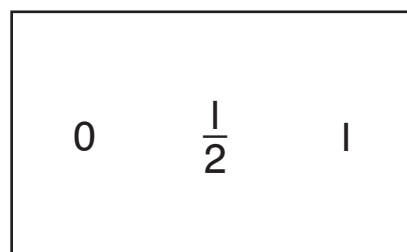
Write the fraction for the colored part.

Circle if it is closer to 0,  $\frac{1}{2}$ , or 1.

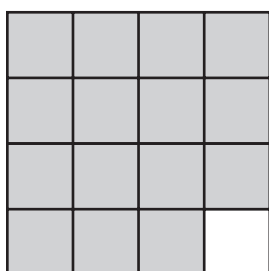
5.



\_\_\_\_\_



6.



\_\_\_\_\_

