

My Name: _____

Do all of these:

- page 1
- page 2
- page 3
- page 4
- page 5
- page 6
- page 7
- page 8
- page 9
- page 10
- page 11
- page 12

MAGNETS!

A magnet is a piece of metal that can attract another piece of metal. It can be made of iron, steel, cobalt, or even metal.



Ready to code? Dr. Programmer is, and he will show you how!

Name: _____

I did page 1

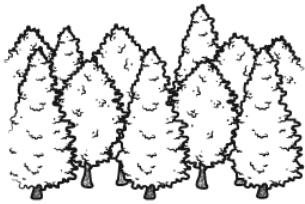
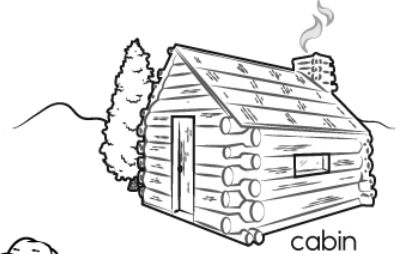
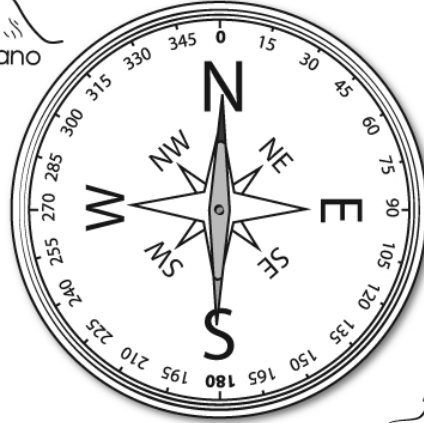
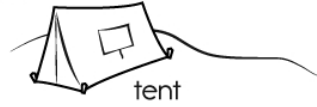
edHelper

MAGNETS!

Which direction would you travel to reach each landmark?



*The north pole is magnetized, which attracts the magnet on a compass needle. It will always point north.



NE tent

_____ cabin

_____ waterfall

_____ mountains

_____ lake

_____ volcano

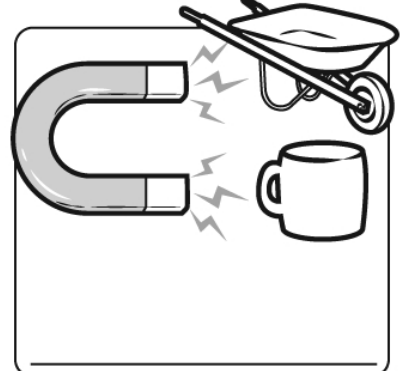
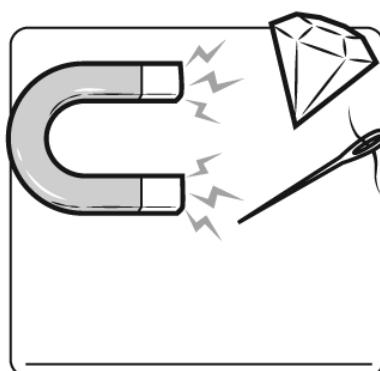
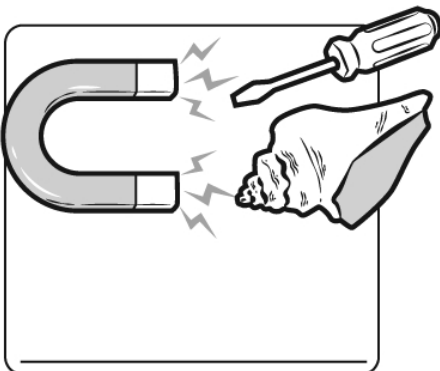
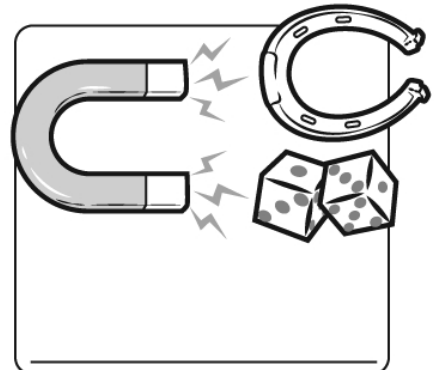
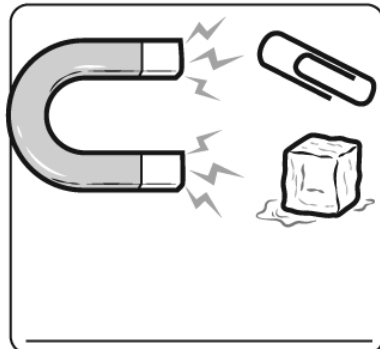
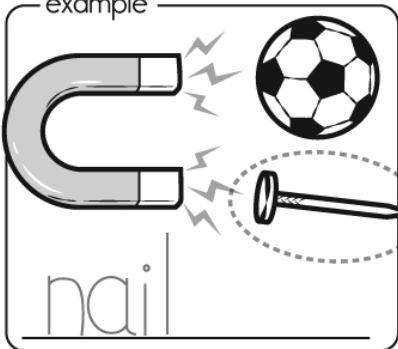
_____ forest

_____ butte



Which item is the magnet most likely to attract?

example



Name: _____

I did page 2

edHelper

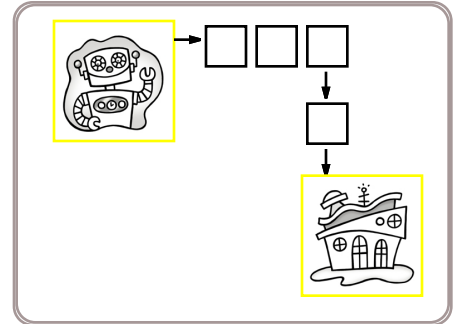
go_down (how many squares) The robot will go down this many squares.

go_right (how many squares) The robot will go right this many squares.

Secret map:

```
print_robot()  
go_right ( 3 )  
go_down ( 1 )  
print_robot_home()
```

Draw the map:

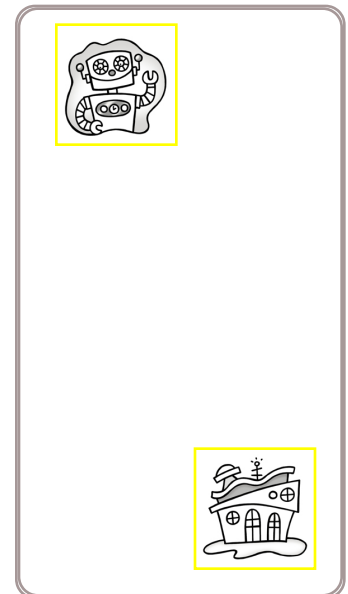


Robot moved 4 squares.

Secret map:

```
print_robot()  
go_down ( 3 )  
go_right ( 2 )  
go_down ( 1 )  
print_robot_home()
```

Draw the map:

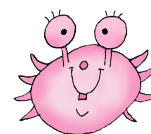


Robot moved _____ squares.

$132 \div 12 =$

$1 \text{ lb} = 16 \text{ oz}$

$28 \text{ lb} = \text{_____} \text{ oz}$



Name: _____

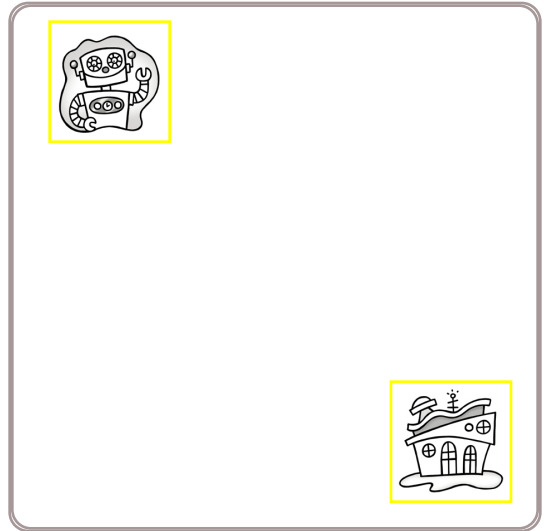
I did page 3

edHelper

Secret map:

```
print_robot()  
go_right ( 2 )  
go_right ( 2 )  
go_down ( 2 )  
go_down ( 2 )  
print_robot_home()
```

Draw the map:

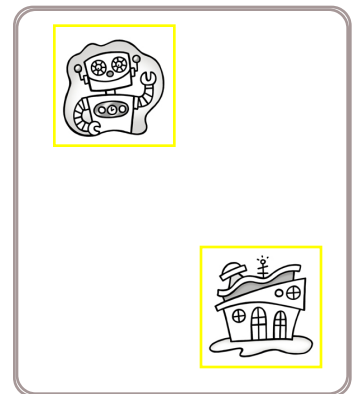


Robot moved _____ squares.

Secret map:

```
print_robot()  
go_right ( 1 )  
go_down ( 2 )  
print_robot_home()
```

Draw the map:



Robot moved _____ squares.

Circle the greatest number:

8,076,329
451,284
37,096,154
162,937,805

$$\begin{array}{r} 376 \\ - 147 \\ \hline \end{array}$$

$7 \times 3 =$

$$\begin{array}{r} 39 \\ + 24 \\ \hline \end{array}$$



Name: _____

I did page 4

edHelper

Regular Tessellating Shapes

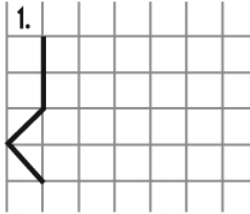


Drawing Tessellations

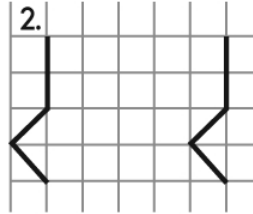
Make your own!

★ ★ ★
★ Don't forget to
★ color your
★ artwork!

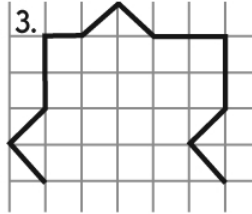
Example



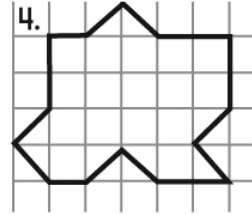
1. Draw a vertical line.



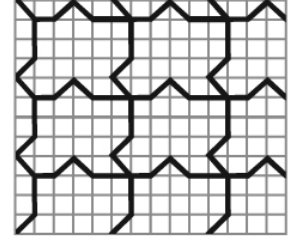
2. Copy that vertical line across from it.



3. Draw a horizontal line.



4. Copy that horizontal line below it.



5. Repeat your shape to fill the grid.

Name: _____

I did page 5

edHelper

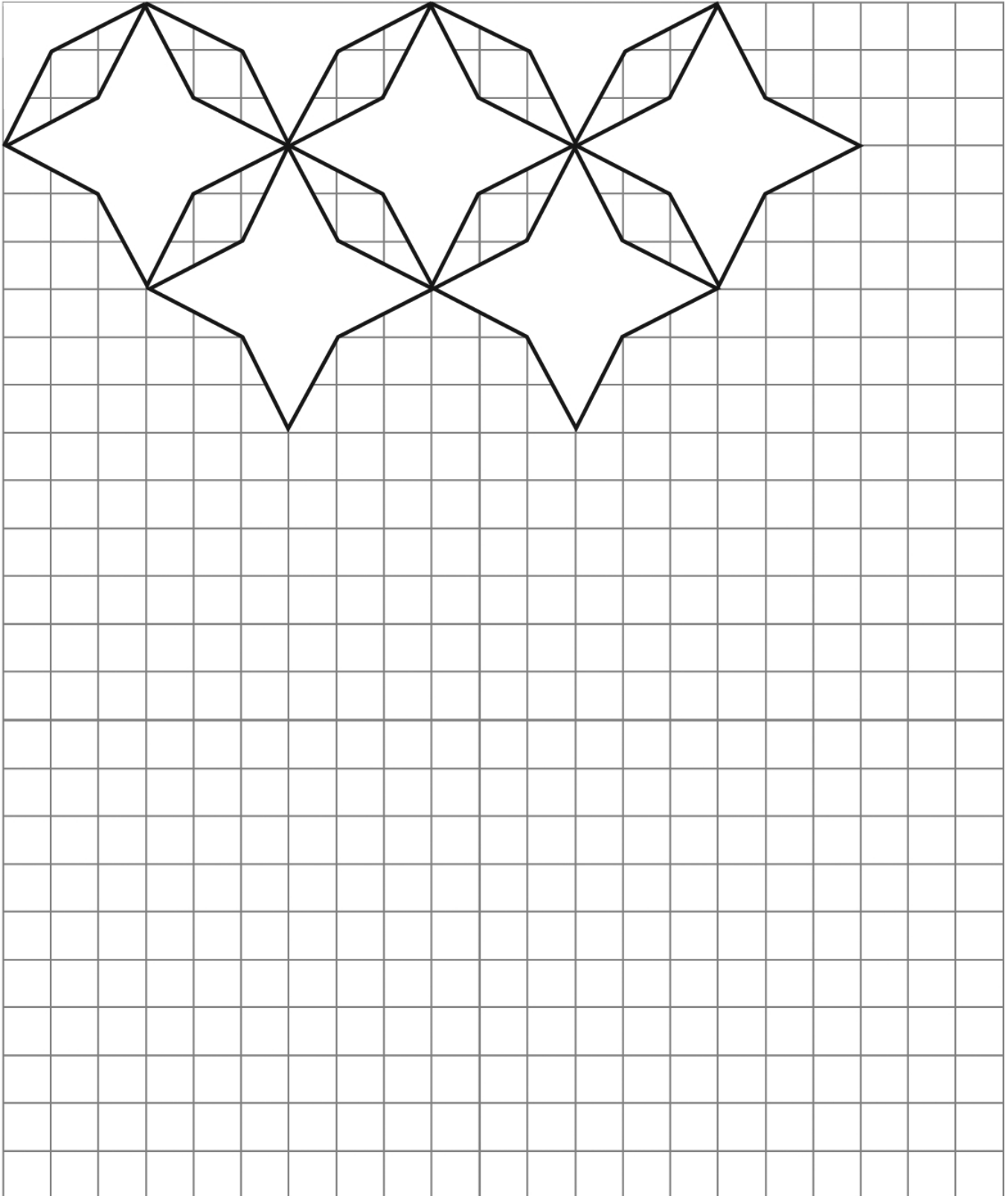
Semi-regular
Tessellating Shapes



Drawing Tessellations

Repeat the shape
to fill the page.

★ ★ ★
★ Don't forget to
★ color your
★ artwork!



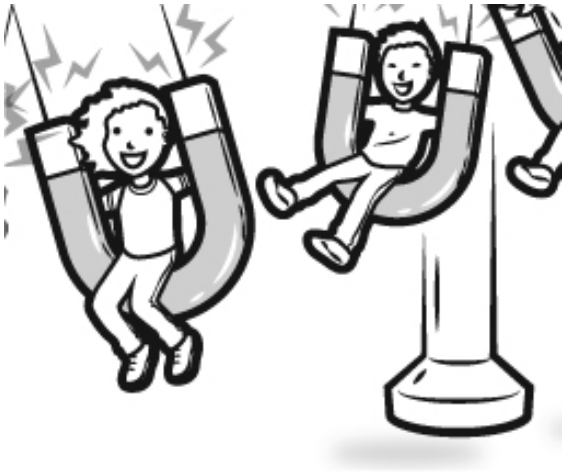
Name: _____

I did page 6

edHelper

Mayor of Magnet Fair

Magnets are great. It's amazing how little pieces of iron can push and pull things. Of course, magnets only work on things that are magnetic, such as things that contain metal. Tricky!



Draw a picture of a magnet pulling something.

You are Mayor of Magnet Fair and have a fair to run. Magnets are fun, but they are much more than that at the Magnet Fair. Here they are celebrated! We are talking crazy rides that use magnets to toss and turn you and much more. Pretend you are mayor and are in charge of this imaginary fair. Write ideas for the fair. Make it up; there are no rules! Make it magtastic.

My ideas...

I think this crazy imaginary fair to celebrate magnets is going to be (check three or four)

- Magnatastic Imposing Foul The Best Crazy Awesome
 Raucous Grand Slow Peculiar Insane

As mayor I am going to _____

Name: _____

I did page 7

edHelper

Magnet Fair - Magnets Got Talent

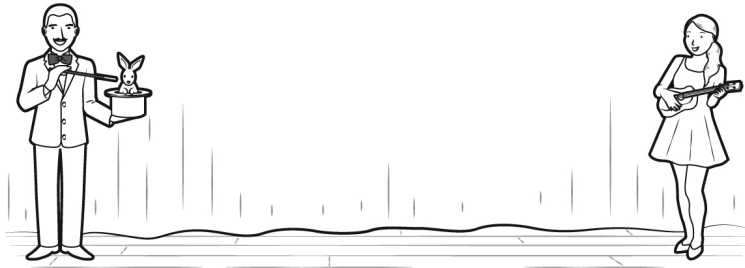
Magnet Fair - Magnets Got Talent

Magnets can move things without touching them. It's like magic!



Everyone wants to know about the rides. Name two rides and what they do.

As mayor you will put on a new show at the fair: Magnets Got Talent. There are two contestants.



The first contestant is (fill in name, age, and what he or she will be doing)

What do the judges think? (check whatever you want)

- Rad Tedious Magnatastic Stuffy Wow Borrowed
 Dandy Original

The first judge sums up this performance. Write what the first judge says.

Name: _____

I did page 8

edHelper



Math Tricks

Quickly, what is $6 + 8$? Is it 14? Maybe 13? It's uh... [using fingers]. You're kidding! When you add a number to 8, the answer is $10 +$ that number $- 2$.

+8 Rule
 $\# + 8 = 1 \# - 2$
 $3 + 8 = 11$
 $5 + 8 = 13$

= 4
 $4 + 8 = 1 \boxed{4} - 2$
 $= \underline{1} \underline{2}$

= 3
 $_ + 8 = 1 \boxed{_} - 2$
 $= _ _$

= 8
 $_ + 8 = 1 \boxed{_} - 2$
 $= _ _$

= 2
 $_ + 8 = 1 \boxed{_} - 2$
 $= _ _$

$5 + 8 = \underline{1} \underline{3}$
Since $5 - 2 = 3$

$2 + 8 = \underline{1} _$
Since $2 - 2 = 0$

$4 + 8 = \underline{1} _$
Since $4 - 2 = 2$

$6 + 8 = \underline{1} _$
Since $6 - 2 = 4$

$7 + 8 = \underline{1} _$
Since $7 - 2 = 5$

$8 + 8 = \underline{1} _$
Since $8 - 2 = 6$

$3 + 8 = \underline{1} _$
Since $3 - 2 = 1$

$9 + 8 = \underline{1} _$
Since $9 - 2 = 7$

Write in your own words how to add a number to 8.

Step 1: _____

Name: _____

I did page 9

edHelper

$8 + 2 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

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

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

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

$8 + 8 = \underline{\quad}$



$1 + 8 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

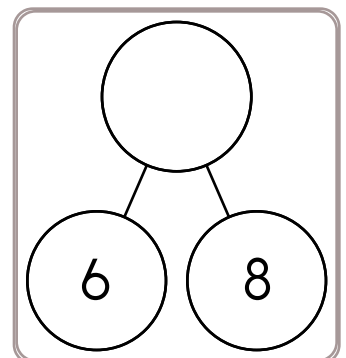
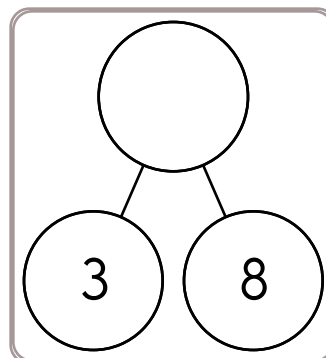
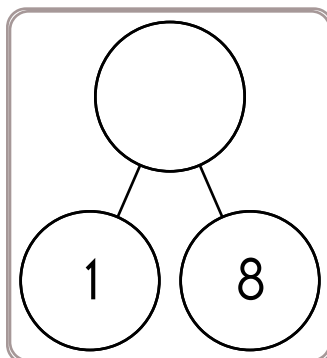
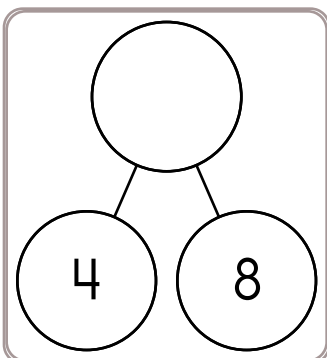
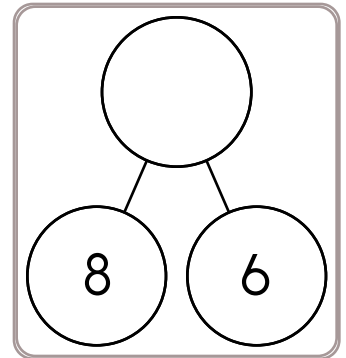
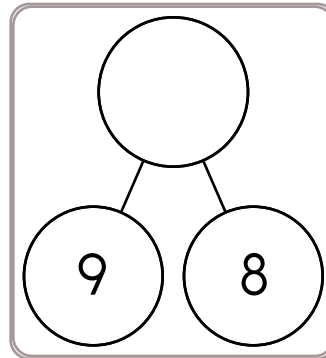
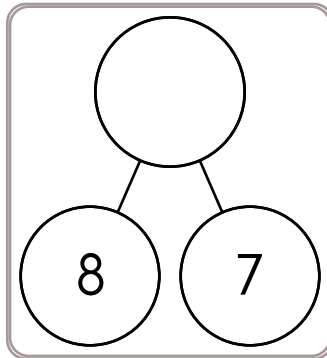
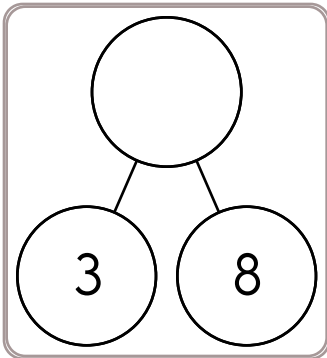
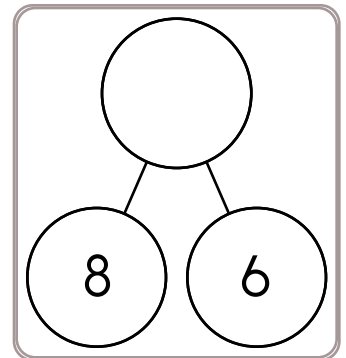
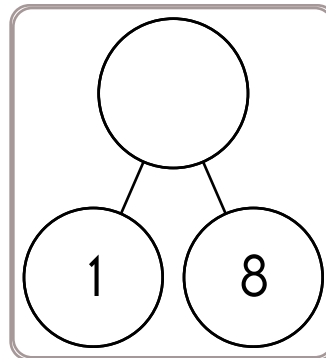
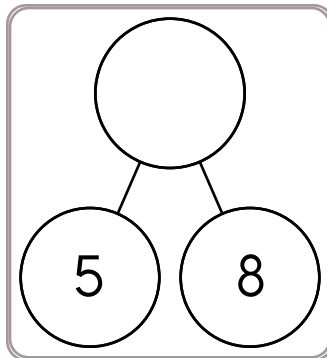
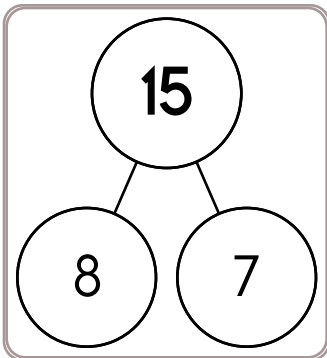
$8 + 6 = \underline{\quad}$

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

$1 + 8 = \underline{\quad}$

$8 + 8 = \underline{\quad}$

Spin fidget spinner. Quick! Add. Complete each number bond. Do as many as you can before it stops.



Name: _____

I did page 10

edHelper

$8 + 6 = \underline{\quad}$

$9 + 8 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

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

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

$8 + 6 = \underline{\quad}$



$7 + 8 = \underline{\quad}$

$8 + 6 = \underline{\quad}$

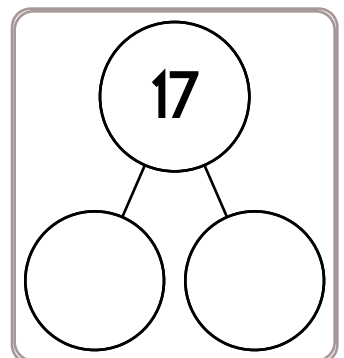
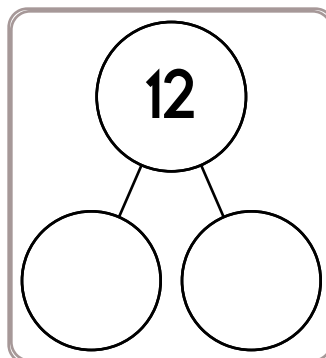
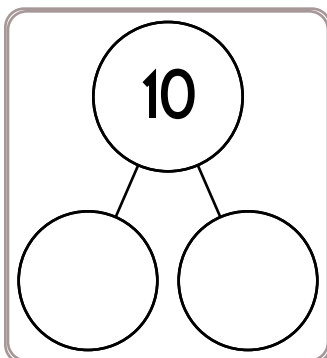
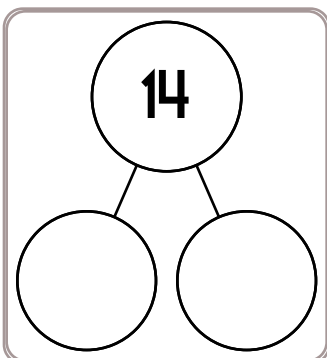
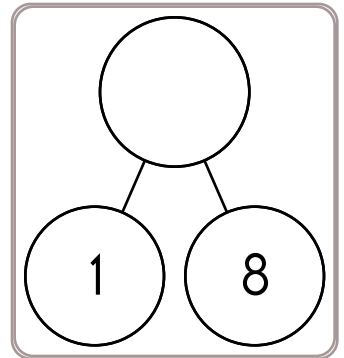
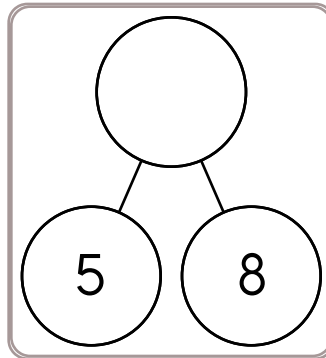
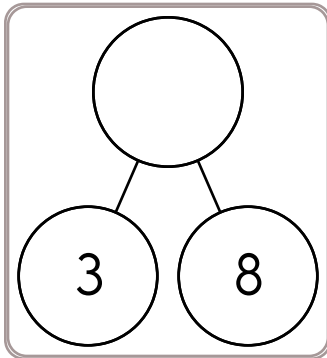
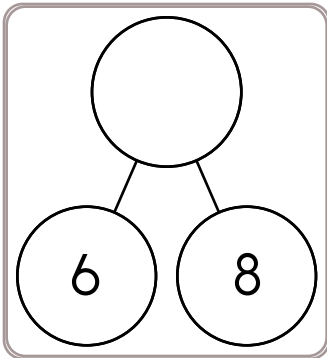
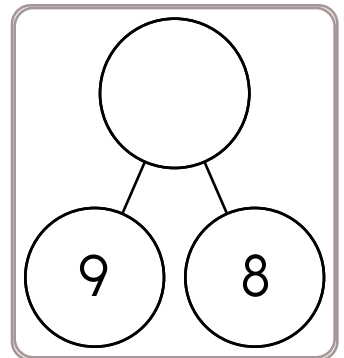
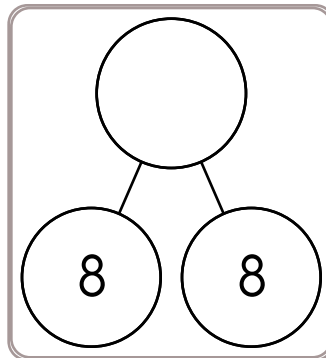
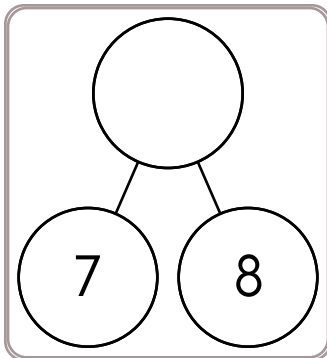
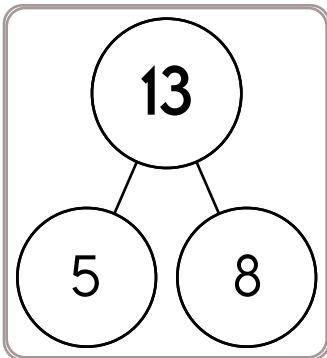
$8 + 1 = \underline{\quad}$

$1 + 8 = \underline{\quad}$

$8 + 8 = \underline{\quad}$

$8 + 7 = \underline{\quad}$

Spin fidget spinner. Quick! Add. Complete each number bond. Do as many as you can before it stops.

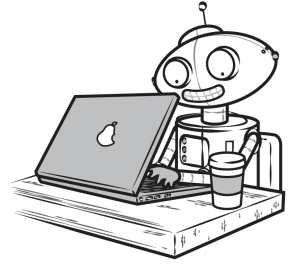


Name: _____

I did page 11

edHelper

Dr. Programmer loves to type on his computer. But his darn monitor is sometimes broken. Fill in what the computer should print.



print This is the computer's pencil. It will be used to write something.

Dr. Programmer typed:

```
print ( "Robots are fun." )
```

The computer replied:

Robots are fun.

Dr. Programmer typed:

```
print ( "Robots can talk." )
```

The computer replied:

R o b o _ s _ c _ n
_ _ _ l k .

Dr. Programmer typed:

```
A = "walk"  
print ( "Robots can ", A, ".")
```

The computer replied:

Dr. Programmer typed:

```
A = "hop"  
print ( "Robots can ", A, ".")
```

The computer replied:

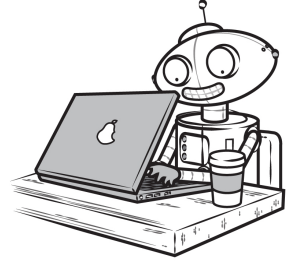
Name: _____

I did page 12

edHelper

Dr. Programmer is Counting Pens

Dr. Programmer loves to type on his computer. But his darn monitor is sometimes broken. Fill in what the computer should print.



(Don't tell anyone, but these are some of Dr. Programmer's secret commands!)



print This is the computer's pencil. It will be used to write something.

Dr. Programmer typed:

```
red pens = 9  
green pens = 3  
pens = red pens+green pens
```



```
print("There is a total of ",pens," pens.")
```

The computer replied:

There is a total of 12 pens.

```
red pens = 7  
green pens = 5  
pens = red pens+green pens
```



```
print("There is a total of ",pens," pens.")
```

----- _ _ _
----- | o _ _
----- .

```
red pens = 6  
green pens = 4  
pens = red pens+green pens
```



```
print("There is a total of ",pens," pens.")
```