

# Summer Math Activities for Students Entering Grade 2

**Dear Student / Parent / Guardian:**

The Clifton School District Summer Math Activity assignment is designed to have you practice math skills and concepts in a fun and engaging way. To promote family time together, one part of the summer assignment is to have family game time. You can also play games with siblings and friends! Believe it or not, many games contain a lot of problem solving and expose you to mathematics in everyday life. The second part of the assignment is to have you practice math content through free online math games. Finally, to promote a STEAM connection, there are three Problem Solving Reading Mat activities that your child is encouraged to complete.

**Online Math Games:** Your assignment is to select 10 of the websites to practice your math for at least 10 minutes once a week. Of course, you can practice more than this, it's just a suggestion.

You will need to keep track of the different online and family games that you play with the logs provided in this packet. Your teacher will collect your logs and Problem Solving Activity pages when you return to school in September for extra credit, at least one homework pass, or classwork grade.

Students who do not have computer access can go to the Clifton Public Library and request a Library Card that will grant them internet access.

An electronic list of these websites is also posted on the Clifton website,  
<http://clifton.k12.nj.us/>

## Enjoy your Summer Vacation!!!

## Family Game Time



*Here are some suggestions for your game time along with the math concepts/skills that the games reinforce:*

### **Suggested Board Games:**

Checkers and Chess – problem solving, number concepts

Chutes and Ladders® - counting forward and backward

Scrabble or Scrabble Junior® - addition, repeated addition or multiplication, problem solving

Monopoly® - money, counting, problem solving

Clue® - problem solving, counting

Mouse Trap® - counting, problem solving, STEM

Connect Four® - problem solving

Uno® - number recognition, problem solving, patterns

### **Card Games:**

Go Fish - number recognition, making sets, problem solving

Matching – number recognition, problem solving

Gin Rummy - making sets, number recognition, addition and subtraction, problem solving

Playing Card War- number recognition, magnitude of numbers

### **Outdoor Games:**

Playing baseball, kickball, soccer, hopscotch, four square, tag, and basketball teach averages, addition, strategy, problem solving, and number recognition.

## Math Practice Sites

**The following websites are designed to allow you to practice your math skills throughout the summer in a fun way!**

<https://www.funbrain.com/math-zone> Games are listed by grade level

<http://www.AAAMath.com> Interactive Math Activities

<http://www.missmaggie.org> “Around the World in 80 Seconds”

[http:// Brainpop.com/](http://Brainpop.com/) Try a quiz and extra practice

<http://www.arcademics.com> Lots of great interactive math games

<http://www.aplusmath.com> Games and Flashcards

<http://www.brainormous.com/> Problem solving and math games

<http://www.allmath.com/flashcards.php> Flash cards for all basic operations

<http://www.mathplayground.com/index.html> More math games

<http://www.mathplayground.com/games.html> Games for grades 1-6.

<http://www.ericmilou.com> Browse the Grade K-3 or 4-8 Math Links

<http://www.rsinnovative.com/rulergame/> Start off with 1 inch

<http://illuminations.nctm.org/Search.aspx?view=search&gr=Pre-K-2> Search grade K-2 activities

<http://www.abcya.com/> Choose your grade level to choose a game

<https://www.prodigygame.com/> Sign up for a **free** account. Role playing math game for grades 1-8

**You can always choose a different online math game; just make sure it's a FREE game!**





## Collecting coins

Coins tell us about the past. They tell us about the people who made them. They tell us about the people who used them. Anyone can make a coin collection!



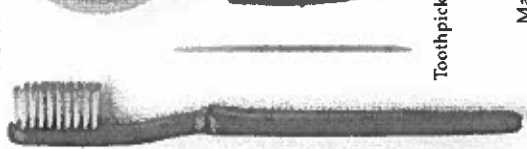
**SAVED**  
People buried coins to keep them safe from thieves.



**WRITE IT DOWN**  
Some people draw the coins they collect in a notebook.

**CLEAN UP**  
Rubbing alcohol is the best way to clean coins.

Toothbrush



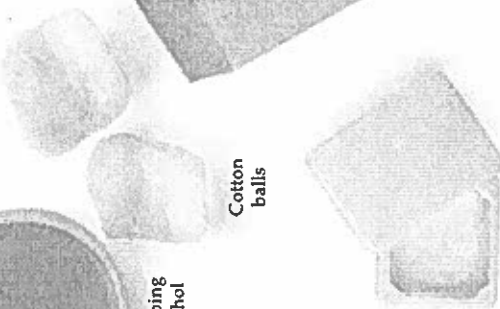
Rubbing alcohol



Pen cap



Cotton balls



Magnifying glass

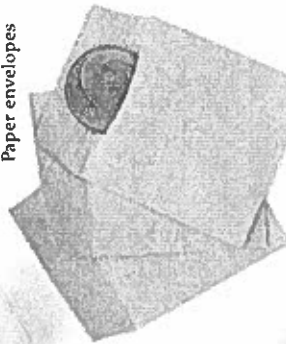
Toothpick



**LOOKING AFTERYOUR COINS**  
Old coins are very dirty. Clean them with rubbing alcohol or soap. Use a toothbrush or toothpick to get the dirt off.

Take care of your coins!

Paper envelopes



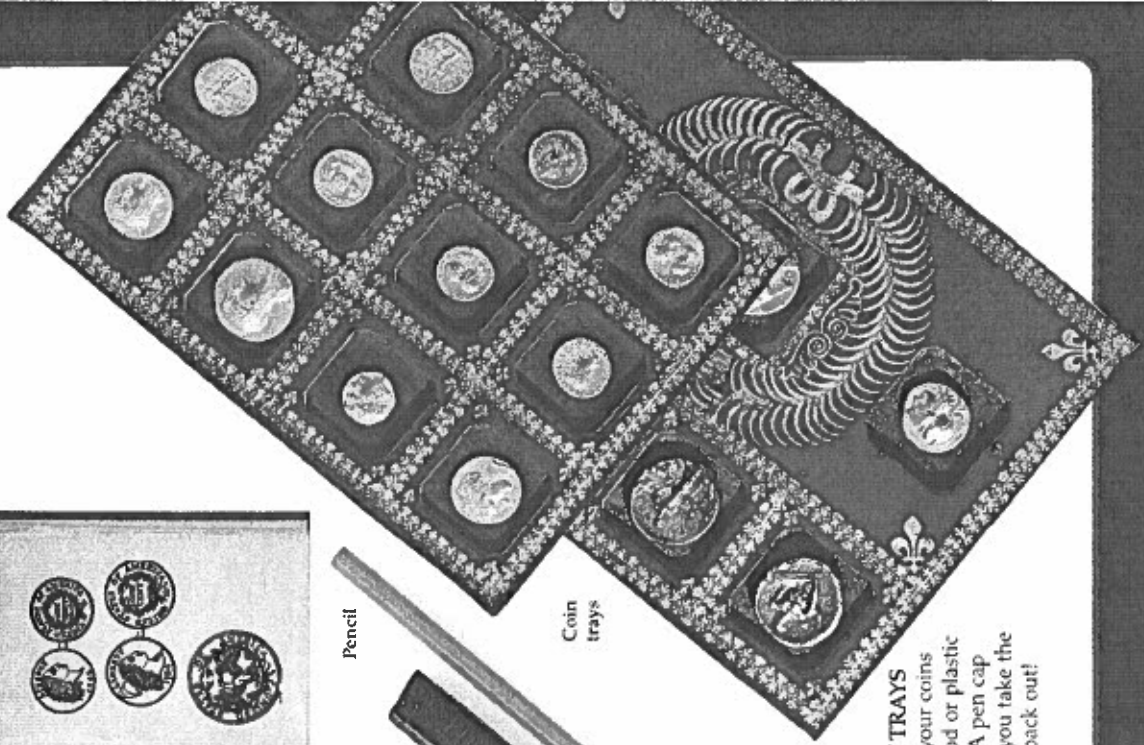
**SAFE KEEPING**  
Paper envelopes keep old coins safe from damage.

Pencil



Rubbing wax

Coin trays



**RUBBINGS**  
You can rub your coins in your notebook. Put a coin under the paper. Rub a pencil or rubbing wax over the coin. What do you see?

**COIN TRAYS**  
Keep your coins in wood or plastic trays. A pen cap helps you take the coins back out!

Name \_\_\_\_\_

# State Coins

There are different pictures on the back of some state coins. The pictures show special things about that state.



Solve each number story. Write the missing numbers. Use counters if needed.

1. Terry wants to collect coins from 16 states.  
She has collected 9 coins.  
How many more coins does Terry need to collect?

$$16 \bigcirc \underline{\quad} = \underline{\quad}$$

\_\_\_\_\_ coins

2. Betty has 5 nickels and 8 quarters.  
How many coins does she have in all?

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

\_\_\_\_\_ coins

3. Find the missing number in the equation  $14 = 4 + \underline{\quad}$ .  
Then write a story about coins that matches the problem.

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Name \_\_\_\_\_

## Using Coins

Coins are a type of money.  
You can buy items at a store using coins.

Solve each problem. Draw pictures of coins or counters to help.

1.  $9 + \underline{\quad ? \quad} = 7 + 5$

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

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

2.  $10 - 8 = 6 - \underline{\quad ? \quad}$

$\underline{\quad \quad} = 6 - \underline{\quad ? \quad}$

$\underline{\quad \quad} = 6 - \underline{\quad \quad}$

3. Dora has 14 coins. She gives 5 coins to her sister.

Her brother has 7 coins. How many more coins does her brother need to have the same number of coins as Dora?

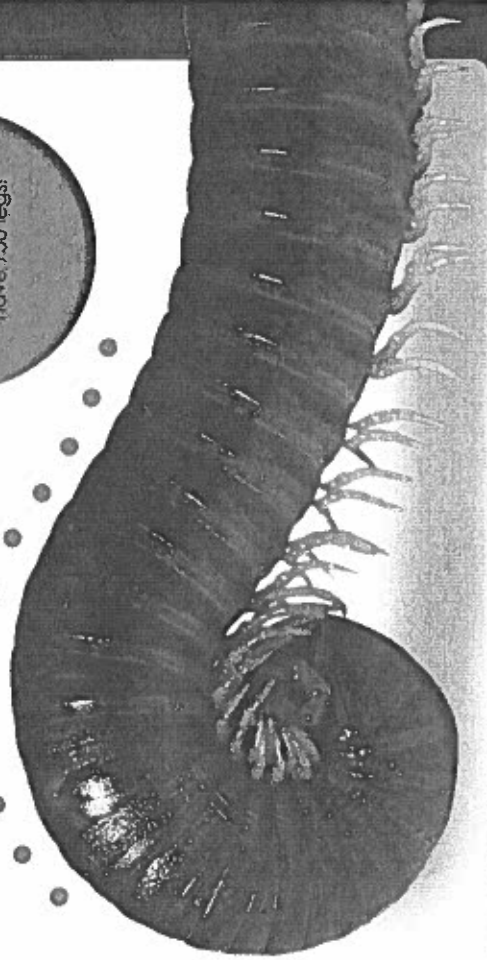
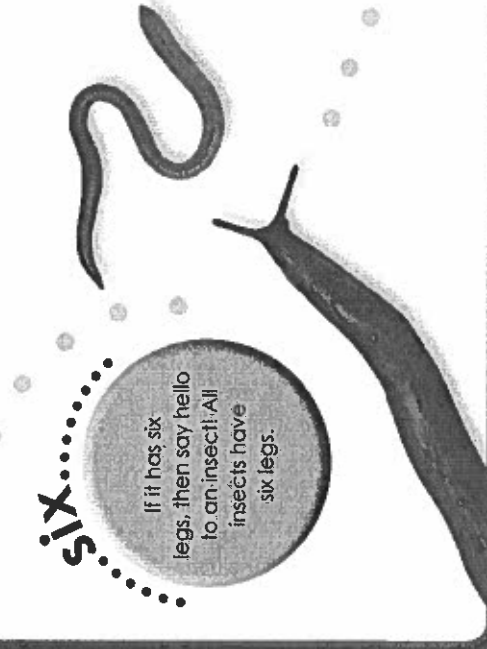
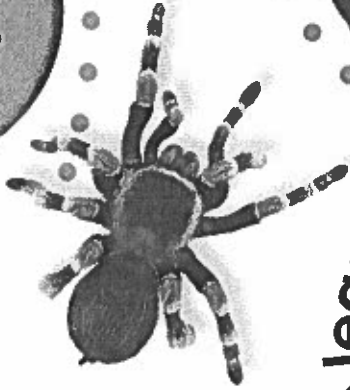
$14 - 5 = 7 + \underline{\quad \quad} \quad \underline{\quad \quad}$  coins





# How many legs?

Bugs come in all **shapes** and **sizes**. But you can often tell which **kind** it is by counting the legs. **Count** quickly—some **bugs** are fast!



**eight**.....  
Can you count eight legs? If so, you are looking at a spider or scorpion. They always have eight legs.

**many**.....  
Centipedes have lots of legs. They have one pair on each small body segment..

**Too many**.....  
Too many legs to count? That's a millipede. Some have 750 legs!

**no legs**.....  
If you come across a creature with no legs, then you are probably looking at a worm or slug.

**six**.....  
If it has six legs, then say hello to an insect! All insects have six legs.

Name \_\_\_\_\_

# What's My Number?

Bugs are fast on the ground and fast in the air too! Some dragonflies can fly as fast as 20 miles per hour.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

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Use the number chart to help Kim and Seth solve each problem.

1. Kim counts 55 spiders. She has 5 more to count. How many spiders are there in all?

55, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ spiders

2. Kim counts 98 ladybugs. Then Seth counts some more. There are 103 ladybugs in all. How many more ladybugs did Seth count?

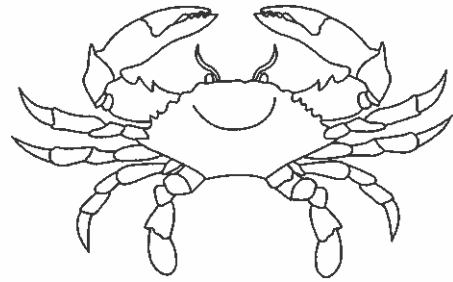
98, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ ladybugs

3. Seth counts 46 butterflies. Then Kim counts some more butterflies by 10s. They count 116 butterflies in all. Show how Kim counted.

46, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Name \_\_\_\_\_

# Counting on with Critters

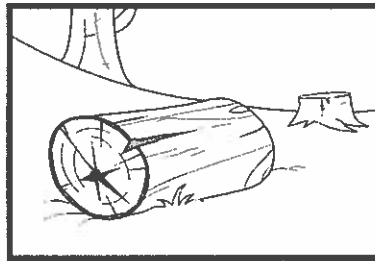


Crabs have 10 legs. The first pair have sharp claws and are used to hold or capture food. Eight legs are used for walking.

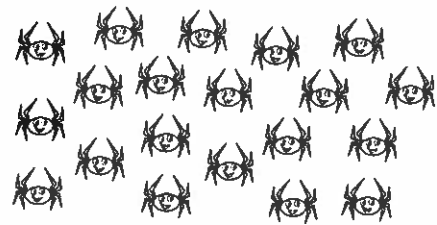
How many critters in all? Use a shortcut to count on.  
Tell what shortcut you used.

1. \_\_\_\_\_ spiders

I counted on by \_\_\_\_\_.

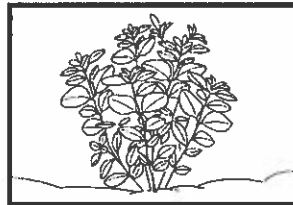


15 Spiders

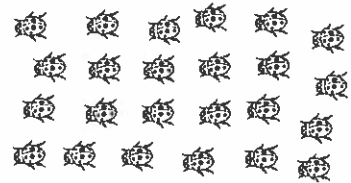


2. \_\_\_\_\_ ladybugs

I counted on by \_\_\_\_\_.



7 Ladybugs

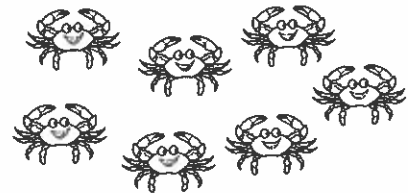


3. \_\_\_\_\_ crabs

I counted on by \_\_\_\_\_.

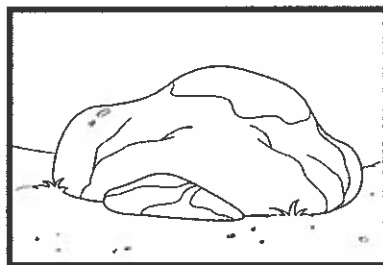


64 Crabs

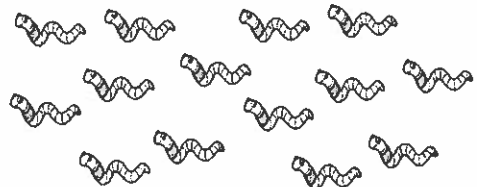


4. \_\_\_\_\_ worms

I counted on by \_\_\_\_\_.



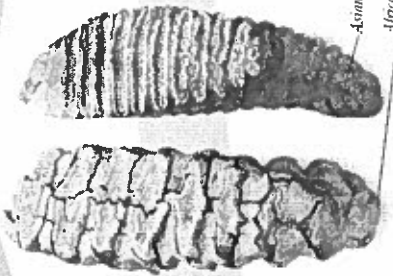
18 Worms





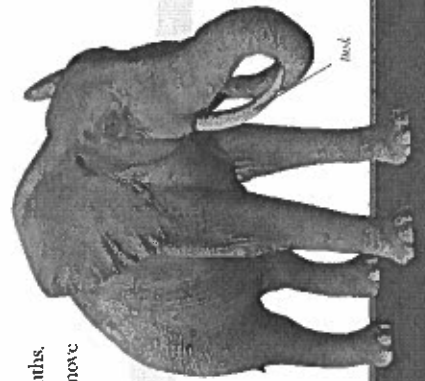
# Bite Sized

We use our teeth to bite and chew our food, like many animals. But some animals have bigger teeth than us, and some have no teeth at all!



**Elephants** have two ivory tusks on either side of their mouths. These tusks are used to dig, to move and to lift things—some tusks even for protection! Elephants also have teeth on the inside of their mouths. Their molars have ridges for grinding food.

Asian elephant tusk  
African elephant molar



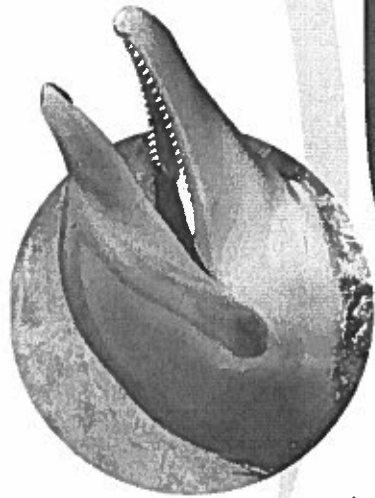
**Anteaters** have no teeth. They just swallow insects whole.

Sniff!  
sniff!

Peck peck!

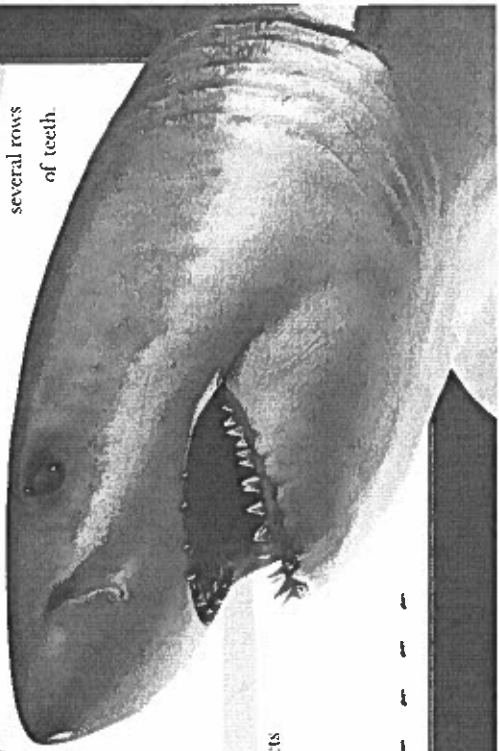


**Birds** use their beaks to peck and crack open their food.



**Dolphins** have lots of sharp pointed teeth—just the right shape for catching fish.

**Sharks** have several rows of teeth



**Shrews** have tiny teeth for eating insects and worms.

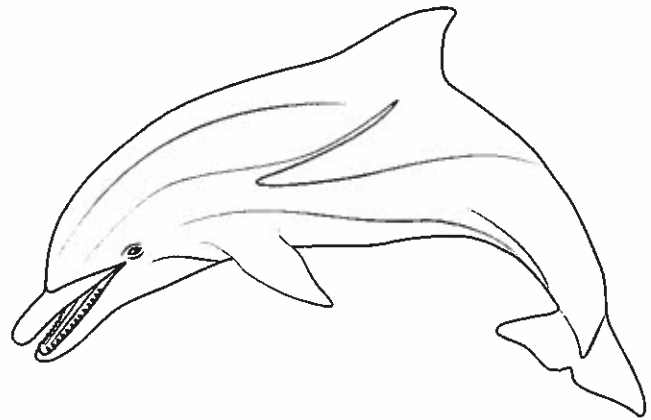


Hamsters' front teeth keep growing all their lives

Name \_\_\_\_\_

# What Do You Eat?

When you grow up, you should have 32 teeth. Bottlenose dolphins have between 76 and 100 teeth!



Solve each problem.

1. An anteater will eat these ants.  
How many ants will it eat?

\_\_\_\_\_ and \_\_\_\_\_ is \_\_\_\_\_.

The anteater will eat \_\_\_\_\_ ants.



2. Lara collects shark's teeth. She has 72 teeth. She wants to put them in special cases. Each case can hold 10 teeth. How many cases should Lara buy? Draw a picture to find the answer. Then explain how you know your answer is correct.

Lara should buy \_\_\_\_\_ cases.

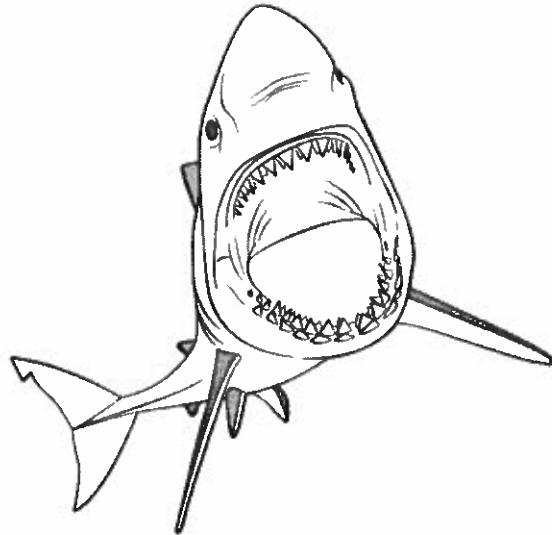
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Name \_\_\_\_\_

# How Many Shark Teeth?



Different sharks have different kinds of teeth. Great white sharks have triangular teeth that cut like a saw.

Show each number of teeth as tens and ones. List all of the ways.

1. 59 teeth

Tens	Ones

2. 63 teeth

Tens	Ones

3. Lester says there are 4 ways to show 45 with tens and ones. Anya says there are 5 ways. Who is correct? Explain your answer.

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