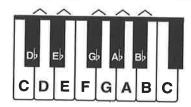
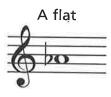
### Flats |

The FLAT sign ( ) before a note lowers the pitch of that note. On the keyboard, play the next key to the left, whether black or white.



When speaking of flatted notes, the word "flat" comes after the letter name, as in A flat. However, in written music, the flat sign comes before the note.



To draw a flat sign, first draw a vertical line:



then add the heavier curved line:



When a flat sign is attached to a line note, the flat is centered on the line.



When a flat sign is attached to a space note, the flat is centered in the space.



Add flat signs to the line notes below.



Add flat signs to the space notes below.

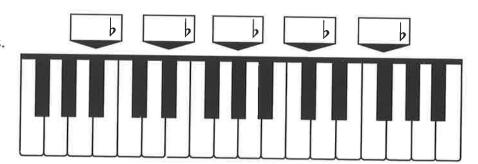


### Exercises

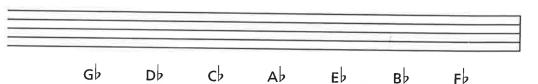
In the example, write flat signs before each note, then name the notes.

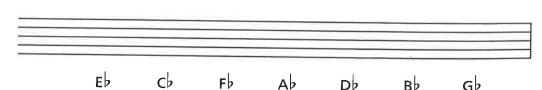


Write the names of the piano keys in the boxes.



- Write a treble clef and the notes indicated on the staff using half notes.
- Write a bass clef and the notes indicated on the staff using quarter notes.





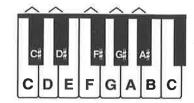
# Sharps

3

3

9

The SHARP sign (#) before a note raises the pitch of that note. On the keyboard, play the next key to the right, whether black or white.



When speaking of sharped notes, the word "sharp" comes after the letter name, as in **C sharp**. However, in written music, the sharp sign comes before the note.



To draw a sharp sign, first draw two vertical lines:



then add the heavier slanting lines:

Ε#

D#



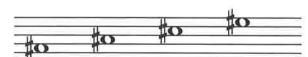
When a sharp sign is attached to a line note, the sharp is centered on the line.



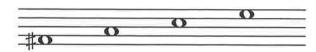
Add sharp signs to the line notes below.



When a sharp sign is attached to a space note, the sharp is centered in the space.



Add sharp signs to the space notes below.

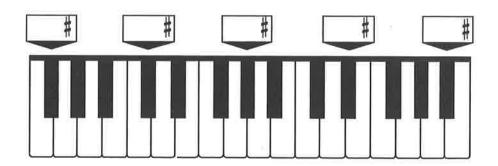


## Exercises

In the example, write sharp signs before each note, then name the notes.



Write the names of the piano keys in the boxes.



Write a treble clef and the notes indicated on the staff using single 8th notes.

F# B# D# A# G# E# C#

Write a bass clef and the notes indicated on the staff using dotted half notes.

в♯

G

F#

C#

A#

### Naturals

The NATURAL sign ( ) before a note cancels a previous sharp or flat. On the keyboard, a note after a natural is *always* a white key.

When speaking of natural notes, the word "natural" comes after the letter name, as in **B natural**. However, in written music, the natural sign comes before the note.



To draw a natural sign, first draw the left half:

then draw the right half:





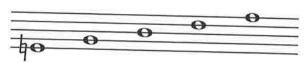
When a natural sign is attached to a line note, the natural is centered on the line.



When a natural sign is attached to a space note, the natural is centered in the space.



Add natural signs to the line notes below.



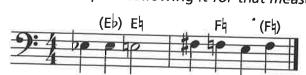
Add natural signs to the space notes below.



When , for signs appear within a musical piece, they are called ACCIDENTALS.

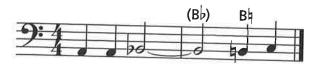
An accidental sign affects the notes written on the same line or space following it for that measure only.





A bar line cancels all accidentals in the previous measure, except if a note is tied across the bar line.



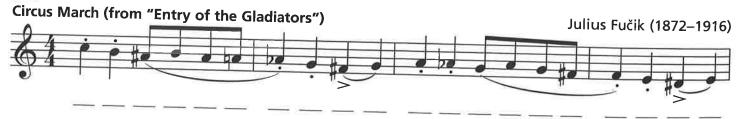


## Exercises

In the example, write natural signs before each note, then name the notes.

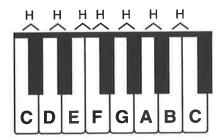


2 Write the names of the notes on the lines below the staff.

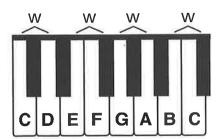


# Whole Steps, Half Steps and Enharmonic Notes

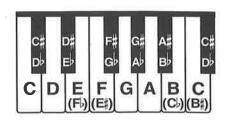
The distance from any key on the keyboard to the very next key above or below, whether black or white, is a HALF STEP (H).



The distance from any key to two keys above or below, is a WHOLE STEP (W).



The key a half step up from C is C‡. This key is also a half step down from D, and is also known as D<sup>b</sup>.



Many notes sound the same but are written differently. These notes are called ENHARMONIC NOTES.

## Exercises

The enharmonic note for Fb is \_\_\_\_\_\_. The enharmonic note for E# is \_\_\_\_\_\_.

The enharmonic note for Cb is \_\_\_\_\_. The enharmonic note for B# is \_\_\_\_\_.

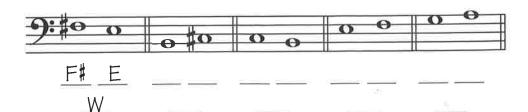
- Write the 2 indicated enharmonic notes on the staff and name the notes in the spaces below:
  - a. one half step above G
  - b. one half step below F
  - c. one half step below B
  - d. one half step above D



- Write the indicated notes on the staff and the name of the note in the spaces below. If there are enharmonic notes, write both.
  - a. one whole step above G#
  - b. one whole step below F
  - c. one whole step below A
  - d. one whole step above E

0		
10		
/		

- a. b. \_\_\_\_ c. \_\_\_ d. \_\_\_\_
- Name the notes and indicate whether the distance between each pair of notes is a whole step (W) or a half step (H).



- Circle one: The flat sign (b) raises or lowers the pitch.
- Circle one: The sharp sign (‡) raises or lowers the pitch.
- A natural sign \_\_\_\_\_ a previous sharp or flat.
- An accidental is in effect for \_\_\_\_ measure(s) only.
- Write the following notes on the staff below. Write the notes in two places, one above the other.

	Εþ	G#	C#	В	A	F♯	Db	
Λ	l							_
<i>—</i>	20							_
(	200							=
	00							_

- The note F is \_\_\_\_\_ half step(s) above E.
- The note D is \_\_\_\_\_ whole step(s) above C.
- The note F is \_\_\_\_\_ whole step(s) below G.
- Name 2 notes that are a half step away from A.
- The enharmonic note for:

E# is \_\_\_\_\_\_.

B# is \_\_\_\_\_.

F<sub>2</sub> is \_\_\_\_\_.

C is \_\_\_\_\_.

## Music Crossword

Fill in the boxes with the correct answers. Do not leave a space between words.

1.	THE DESIGNATION OF THE PERSON	2.	3.				
	4.				5.	6.	HIS
	Haran .	THE I		7.			
_		E 50 (B)	1.2				HEALT.
		in Fre	THE PARTY OF THE P		Alexander of the last of the l	CAP.	201
	1 5 7					1	
	White is	8.		9.	nio pi		
10.						11.	
			mire.		RI HILL	PUR	
						ALEA:	100
	140		refigire.				
	12.	1527	(IDE)	(i) Jeff	12 24		1 6
	316 77				200		
	13.		14.				
V							

### **ACROSS**

- 2. Smoothly connected
- 7. The name of the staff used for higher pitches
- 10.  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{4}{4}$
- 12. This symbol increases the value of the note by half
- 13. Musical silence
- 14. On a keyboard, the distance from one key to the next key (either right or left)

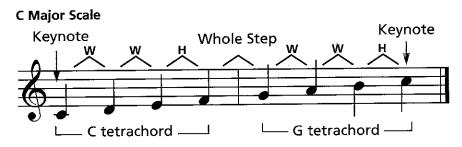
### **DOWN**

- 1. Treble and Bass staffs together
- 3. Flat, Sharp or Natural
- 4. What receives one beat in  $\frac{3}{4}$  time
- 5. Lines added to a staff to extend the range
- 6. Lowers the pitch by a half step
- 8. Curved line connecting 2 or more notes of the same pitch
- 9. 5 lines and the spaces between
- 11. Curved line connecting 2 or more notes of different pitches

# Tetrachords and Major Scales

The word TETRA means four. A TETRACHORD is a series of four notes having a pattern of whole step, whole step, half step. The four notes of a tetrachord must be in alphabetical order.







The MAJOR SCALE consists of eight notes—two tetrachords joined by a whole step.

Each scale begins and ends on a note of the same name, called the KEYNOTE. A scale can begin on any note.

The tones of a scale are also called the DEGREES (or steps) of the scale.

There are eight degrees in a major scale:



In all major scales, half steps occur between the 3rd and 4th and the 7th and 8th scale degrees.

The distances between all other scale degrees are whole steps.

### Exercises

Write tetrachords starting on the following notes, then add the note names under the staff. The notes must be in alphabetical order. Write where the whole (W) and half (H) steps occur above the staff.





Write a C major scale.
Add the scale degrees
under each note and
indicate where the
whole and half steps
occur above the staff.



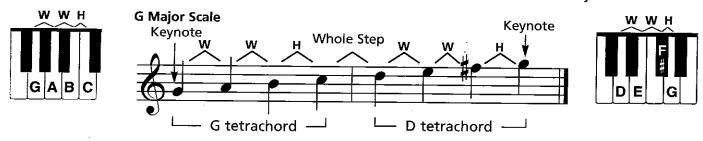
Keynote

Write whether the distance between each note is a whole step (W) or half step (H).



# The Sharp Scales — G and D Major.

Using the same pattern for tetrachords of whole step, whole step, half step, you can build the sharp scale of G major with the G and D tetrachords. G is the 2nd tetrachord of the C major scale.

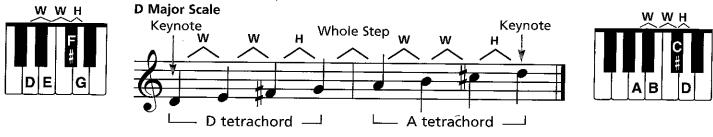


The F must be raised to F# to create a whole step.

An F# is used instead of Gb to stay in alphabetical order.

5

Using the same pattern for tetrachords, you can build the sharp scale of D major with the D and A tetrachords. D is the 2nd tetrachord of the G major scale.



The C must be raised to C# to create a whole step.

A C# is used instead of Db to stay in alphabetical order.

### Important!

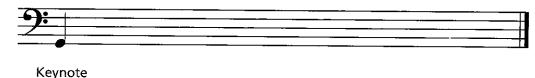
- The 2nd tetrachord of the C major scale is the 1st tetrachord of the G major scale.
- The 2nd tetrachord of the G major scale is the 1st tetrachord of the D major scale. Starting with the C major scale, the 2nd tetrachord is always the 1st tetrachord of the following sharp scale. This overlapping pattern continues through all the major sharp scales.

## Exercises

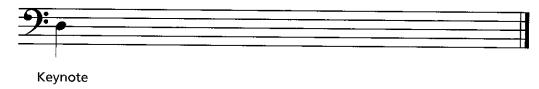
Write tetrachords starting on the following notes, then add the note names below the staff. The notes must be in alphabetical order. Remember to include the necessary accidentals. Write where the whole and half steps occur above the staff.



Write a G major scale.
Add the scale degrees
and indicate where
the whole and half
steps occur.

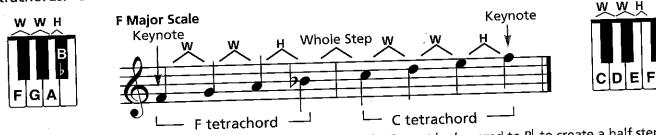


Write a D major scale.
Add the scale degrees
and indicate where
the whole and half
steps occur.



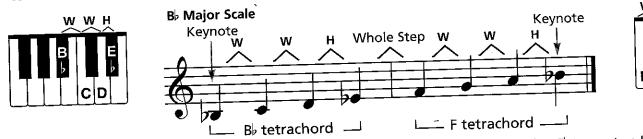
# The Flat Scales — F and Bb Major -

Using the same pattern for tetrachords, you can build the flat scale of F major with the F and C tetrachords. C is the 1st tetrachord of the C major scale.



The B must be lowered to Bb to create a half step. A B is used instead of A# to stay in alphabetical order.

Using the same pattern for tetrachords, you can build the flat scale of Bb major with the Bb and F tetrachords. F is the 1st tetrachord of the F major scale. WWH



The E must be lowered to Eb to create a half step. An Eb is used instead of D# to stay in alphabetical order.

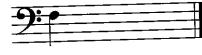
### Important!

- The 4th scale degree of the C major scale (F) is the 1st scale degree of the F major scale.
- The 4th scale degree of the F major scale (Bb) is the 1st scale degree of the Bb major scale. Starting with the C major scale, the 4th scale degree is always the 1st scale degree (keynote) of the following flat scale. This pattern continues through all the major flat scales.

### Exercises ===

Write tetrachords starting on the following notes, then add the notes names below the staff. The notes must be in alphabetical order. Remember to include the necessary accidentals. Write where the whole and half steps occur above the staff.







- Write an F major scale. Add the scale degrees and indicate where the whole and half steps occur.
- Write a B major scale. 3 Add the scale degrees and indicate where the whole and half steps occur.



Keynote

Keynote

# Key Signatures — The Sharp Keys

When writing the scales on page 44, you added sharp signs before the appropriate notes.

In the **G** scale, you added a sharp sign before each F; in the **D** scale, you added sharp signs before each F and C.

To make writing and reading music easier, you can place all of the sharps used in a scale or piece immediately after the clef sign. This is called the KEY SIGNATURE. It indicates the notes that will be sharped each time they appear for the *entire* piece.



In this case, any F will always be played sharp (unless there is a natural sign before the F).

Sharps written in the key signature always appear in a specific order. Here are the sharp key signatures of the scales you know:



The order of sharps in the key signature for up to two sharps is F.C.

### Important!

To figure out the name of a major key from the key signature, go up a half step from the last sharp. As an example: a key signature of F# would be the key of G major;

a key signature of F# and C# would be the key of D major.

# Exercises =

- Write the order of the first two sharps in a key signature.
- If C# is the last sharp in the key signature, the major key name would be \_\_\_\_\_
- Name the following major key signatures.



Write the following major key signatures.



# Key Signatures — The Flat Keys

When writing the scales on page 45, you added flat signs before the appropriate notes.

In the F scale, you added a flat sign before each B; in the B scale, you added flat signs before each B and E.

Just like sharp signs, you can place all of the flats used in a scale or piece in the KEY SIGNATURE. It indicates the notes that will be flatted each time they appear for the *entire* piece.



In this case, any B will always be played flat (unless there is a natural sign before the B).

Flats written in the key signature always appear in a specific order. Here are the flat key signatures of the scales you know:



The order of flats in the key signature for up to two flats is BE.

important!

To figure out the name of a major key from the key signature, remember that one flat is the key of F; for two or more flats, the next-to-last flat is the name of the key. As an example, a key signature of Bb and Eb would be the key of Bb major.

### Exercises

- Write the order of the first two flats in a key signature.
- If B<sub>b</sub> is the next-to-last flat in the key signature, the major key name would be\_\_\_\_\_
- Name the following major key signatures.



Write the following major key signatures.

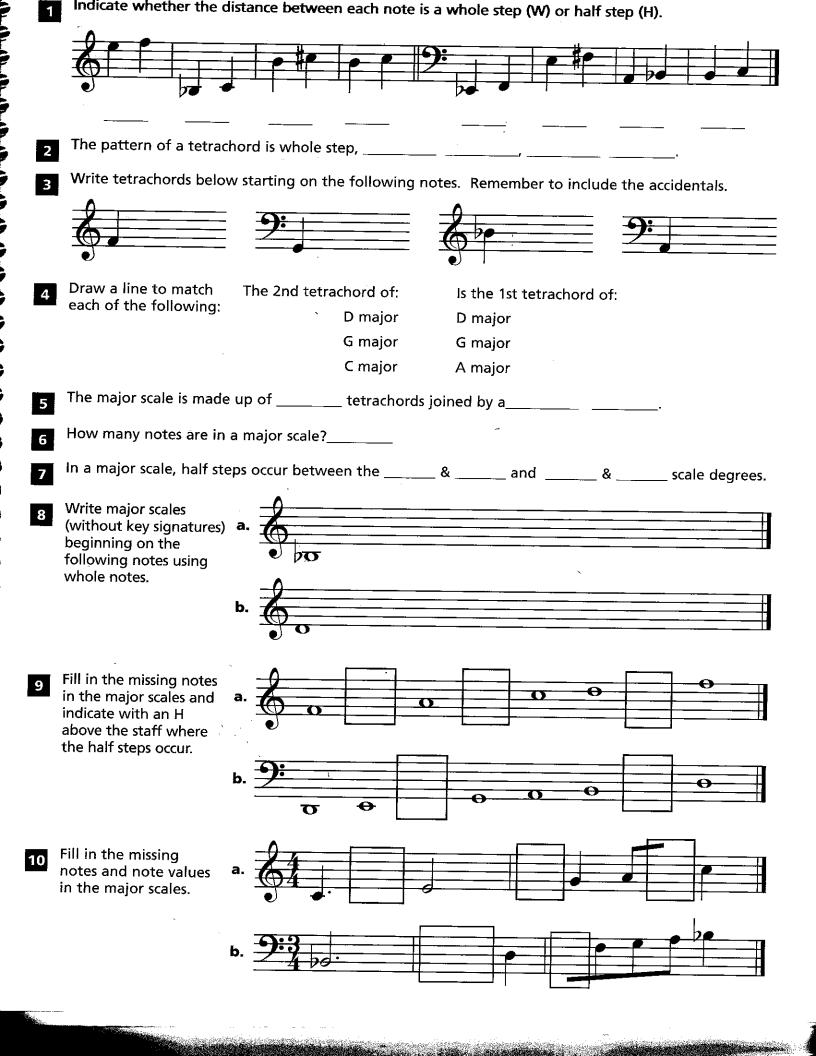


a. F major

**b**. B♭ major

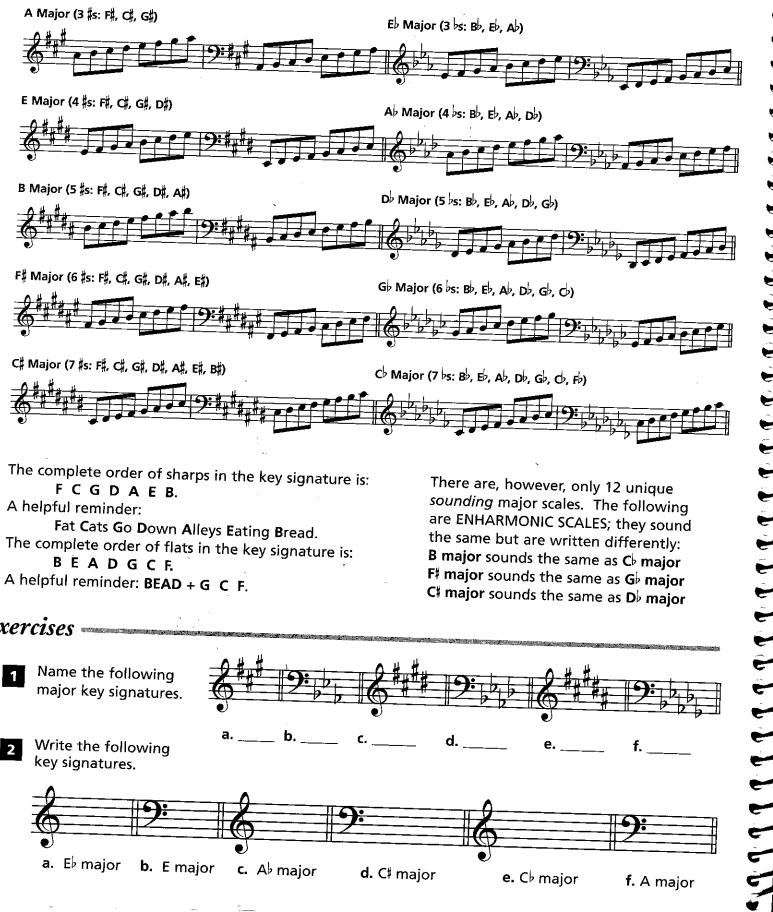
c. B♭ major

**d.** F major



c Remaining Major Scales with Key Signatures

Once you are familiar with how to build tetrachords, it is easy to build any major scale. Altogether, there are 15 major scales: 7 sharp keys, 7 flat keys, and the key of C, which has no sharps or flats. You are already familiar with the scales and key signatures of five of the 15: C, G (F#), D (F#, C#), F (Bb) and Bb (Bb, Eb). Here are the remaining 10.



The complete order of sharps in the key signature is: FCGDAEB.

A helpful reminder:

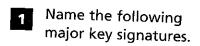
Fat Cats Go Down Alleys Eating Bread. The complete order of flats in the key signature is:

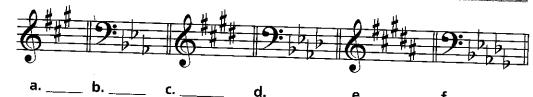
BEADGCF.

A helpful reminder: BEAD + G C F.

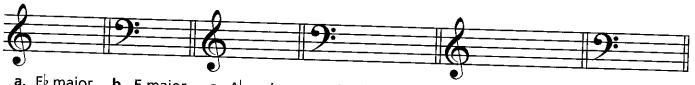
There are, however, only 12 unique sounding major scales. The following are ENHARMONIC SCALES; they sound the same but are written differently: B major sounds the same as C major F# major sounds the same as G major C# major sounds the same as D major

# Exercises





Write the following key signatures.



a. Eb major

**b.** E major

c. Ab major

d. C# major

e. Cb major

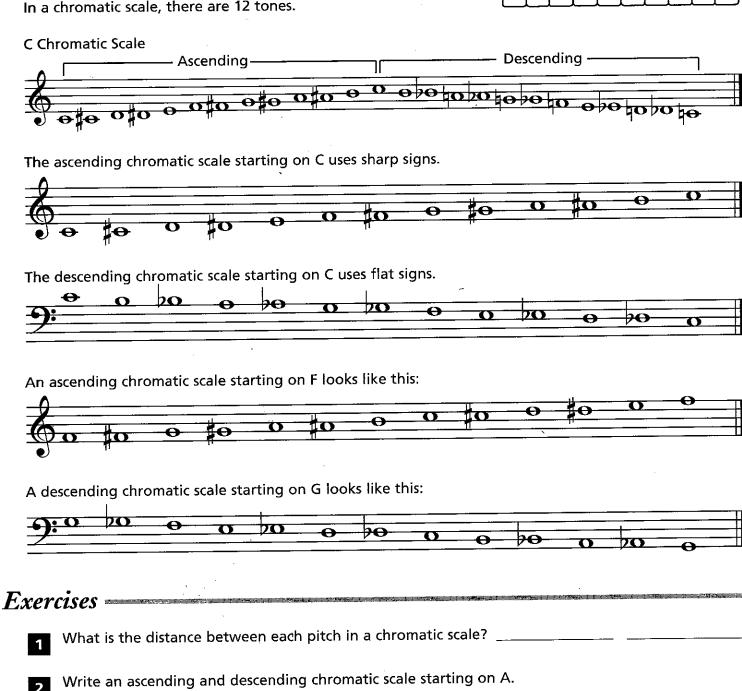
f. A major

# Chromatic Scale

The CHROMATIC SCALE is made up entirely of half steps in consecutive order. On a keyboard, therefore, it uses every key, black and white. When the scale goes up, it is called *ascending*; when the scale goes down, it is called *descending*.

C D E F G A B C

The chromatic scale may begin on any note. In a chromatic scale, there are 12 tones.



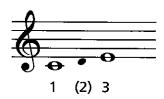
Write an ascending and descending chromatic scale starting on B.



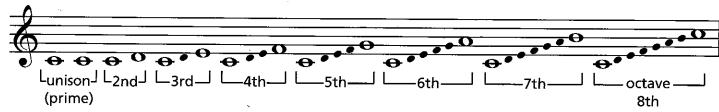
### Intervals

An INTERVAL in music is the distance in pitch between two notes. The interval is counted from the lower note to the higher one, with the lower note counted as 1.





Intervals are named by the number of the upper note (2nds, 3rds, etc.) with two exceptions. The interval between notes that are identical is called a UNISON (also called a PRIME INTERVAL); the interval of an 8th is called an OCTAVE. The intervals below are all written with C as the lower note.



Intervals are called MELODIC INTERVALS when they are sounded separately and HARMONIC INTERVALS when they are sounded together.





even Numbered Intervals of 2nds, 4ths, 6ths and octaves are written from line to space or space to line.



ODD NUMBERED INTERVALS of unisons, 3rds, 5ths and 7ths are written from line to line or space to space.



# Exercises

Name the intervals.



Indicate whether the following are melodic (M) or harmonic (H) intervals.



Write the harmonic interval indicated above the following notes.



# Circle of Fifths

The CIRCLE OF FIFTHS is useful in understanding scales and key signatures. It shows the relationship of one key to another by the number of sharps or flats in the key signature and the order in which the sharps or flats occur.

### **SHARP KEYS**

Start with C and go clockwise in ascending tetrachord order.

### **FLAT KEYS**

Start with C and go counterclockwise in descending tetrachord order.

The sharp keys ascend by 5ths (W W H W);\* the flat keys descend by 5ths (H W W W).

### **SHARP SCALES**

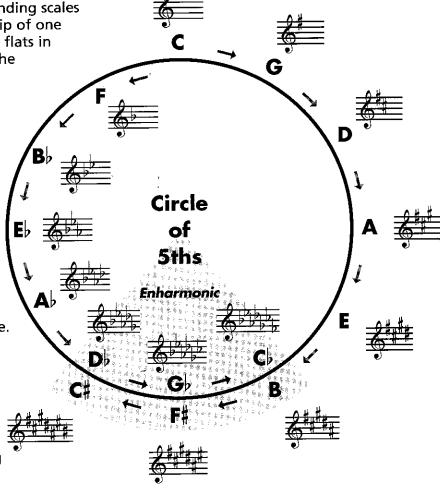
Starting with C, the 2nd tetrachord of the ascending major scale becomes the 1st tetrachord of the following ascending scale. The scale's name is derived from the 1st note of that tetrachord, and one sharp is added to the key signature.

### **FLAT SCALES**

Starting with C, the 2nd tetrachord of the descending major scale becomes the 1st tetrachord of the following descending scale. The scale's name is derived from the 1st note of that descending tetrachord, and one flat is added to the key signature.

### **OPTIONAL**

Another way to determine the order of the flat keys is to ascend by 4ths (W W H). Starting on C: C to F, F to Bb, Bb to Eb, etc.



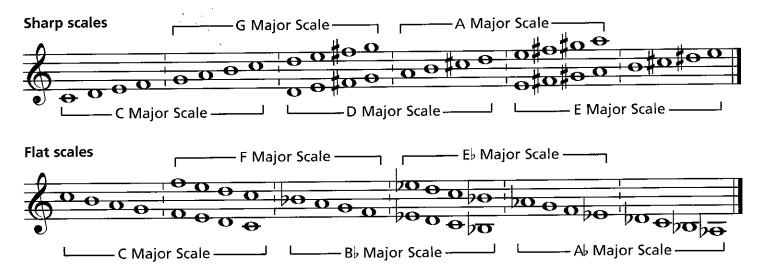
The order of sharps in the key signature:

FCGDAEB.

The order of flats in the key signature.

BEADGCE

#### OVERLAPPING TETRACHORD PATTERNS



<sup>\*</sup>W=Whole Step. H=Half Step.

	jor key sigr	owing natures.			2#		)	9:
<b>W</b> ri	ite the follo	owing key	signature	es.	b	<u> </u>	C	d
2			2		<b>= 2</b>	•		
_	a. A majo	or	b.	G major		c. E major		<b>d</b> . D major
Wh	at is the co	mplete or	der of flat	ts in a key s	ignature?		· ·	
	ne the follo				9: 25	= <b>∌</b>		<b>9</b> :
' maj	or key sign	aturės.			h		) <del> </del>	
Į Wri⁺	te the follo	wing key s	signatures	<u> </u>	D		<b></b>	<b>a.</b>
<b>9</b>			2		9			2
	<b>a.</b> E♭ majo	r	<b>b</b> . E	ß major		<b>c.</b> F major	•	<b>d.</b> A♭ major
the :	a. E♭ majo C♭ major so same as wh or scale?	cale sound nich other	s 8	The G♭ ma	ajor scale s as which o le?	•	The Db the sam	major scale soun e as which other
the s majo	Cl major so same as wh or scale?	cale sound nich other	s 8	The Gb mathe same major sca	as which o	•	major so	major scale sound e as which other cale?
the s majo	Cl major so same as wh or scale?	cale sound nich other scale is ma	s 8	The Gb mathe same major sca	as which o	ounds g	major so	major scale sound e as which other cale?
the s majo	Cly major so same as wh or scale? chromatic so ne the melo	cale sound nich other scale is ma	s 8	The Gb mathe same major sca	as which o	ounds g	major so	major scale sound e as which other cale? order.
the s majo	Cl major so same as wh or scale? chromatic s	cale sound nich other scale is ma	s 8	The Gb mathe same major sca	as which o	ounds g ther in co	major so	major scale sound e as which other cale? order.
the s majo	Cly major so same as wh or scale? chromatic so ne the melo	cale sound nich other scale is ma	de up entals.	The G mathematics major sca	as which o	ounds g	major so	major scale sound e as which other cale? order.
The Nam	Cly major so same as wh or scale? chromatic so ne the melo	scale is ma	de up entals.	The G mathe same major sca	as which o	ounds ther in co	major so	major scale sound e as which other cale? order.
The Nam	Cly major so same as whor scale? chromatic see the melo	cale sound nich other scale is ma odic interva	als.	The G mathe same major sca	as which o	ounds ther in co	major so	major scale sound e as which other cale? order.
The Nam	Ch major so same as whor scale? chromatic see the melo	scale is ma	de up entals.	The G mathe same major sca	as which o	ounds ther in co	major so	major scale sound e as which other cale? order.
The Nam	Ch major so same as whor scale? chromatic see the melo	cale sound nich other scale is ma odic interva	als.	The Gb mathe same major scatirely of	as which of le?	ounds ther in co	major so	major scale sound e as which other cale? order.

what is the complete order of snarps in a key signature?

アクロクランション

1