

Does the New Note Belong?

Check whether a pitch is a member of a given repeating-step collection. Use the printed bank for each question.

A · FILL IN THE MISSING MEMBER

The step recipe and starting note are given. Write the one missing member.

Type	Start	1	2	3	4	5	6	7	8
WT	E $\flat$	E $\flat$	F	_____	A	B	D $\flat$		
Oct (H-W)	D $\flat$	D $\flat$	D	E	F	_____	G $\sharp$	B $\flat$	B
WT	F $\sharp$	_____	G $\sharp$	B $\flat$	C	D	E		
Oct (H-W)	D	D	E $\flat$	F	F $\sharp$	G $\sharp$	_____	B	C

WT = whole-tone (6 members) · Oct (H-W) = half-whole octatonic (8 members) · Enharmonic variants count as the same pitch class.

B · DOES THE NEW NOTE BELONG?

Write **Yes** or **No**. Use the printed collection bank only.

- WT: C D E F $\sharp$ G $\sharp$ B $\flat$ New note: G $\sharp$ Belongs? _____
- Oct (H-W): C D $\flat$ E $\flat$ E F $\sharp$ G A B $\flat$ New note: G $\sharp$ Belongs? _____
- Oct (H-W): C D $\flat$ E $\flat$ E F $\sharp$ G A B $\flat$ New note: B $\flat$ Belongs? _____
- WT: D $\flat$ E $\flat$ F G A B New note: G $\sharp$ Belongs? _____

C · TRANSPOSING THE WHOLE SET — SAME OR DIFFERENT?

Transpose every member up by the given number of semitones. Do you get the same set of pitch classes?

- Transpose whole-tone C set up 2 semitones Same set or different? _____
- Transpose octatonic C set (H-W) up 1 semitone Same set or different? _____

D · COMPOSE A TWO-BAR LINE

Bank: Oct (H-W) from C · Members: C D $\flat$ E $\flat$ E F $\sharp$ G A B $\flat$

Write 8 quarter notes in 4/4 (two bars). Use only notes from the bank above. Rhythm: $\text{♩} \text{♩} \text{♩} \text{♩} | \text{♩} \text{♩} \text{♩} \text{♩}$ Starting note: your choice.

Check: circle each note and confirm it appears in the bank. There is no single correct answer — any line using only bank members is accepted. A model appears in the answer key below.

Try it Listen to the whole-tone and octatonic banks in the audio panel. Hear how every half step in the octatonic collection makes it denser than the whole-tone. Then play your composed line and listen for the same quality.



Listen: scan or visit tissimo.co/worksheets/symmetric-collection-membership-check
Collection bank references & composition model · quarter note = 72

quarter line using only OCT bank C members is accepted; verify each note against the printed bank)

A: 1. G · 2. G · 3. F $\sharp$ · 4. A · B: 1. Yes · 2. No · 3. Yes · 4. No · C: 1. Same set · 2. Different set (new members) · D: Model: C4-F $\sharp$ 4-G4-E $\flat$ 4 | A4-B $\flat$ 4-E4-C4 (any 8-