MIDI Pattern Transposition

Move a whole pattern while preserving its rhythm.

Name _____ Date _____

Use MIDI note numbers: adding 12 moves up one octave; adding 2 moves up two semitones. This exercise names MIDI 60 as C4. Other apps may use different octave labels.

Event	Pitch / MIDI	Start (beat)	Length (beats)
1	C4 / 60	1	1
2	E4 / 64	2	2
3	G4 / 67	4	1

Use the model above. Write a brief answer for each item.

1. Transpose event 1 up 2 semitones. Give its new MIDI number.

2. Transpose event 2 up 2 semitones. Give its new MIDI number.

3. Transpose event 3 up 2 semitones. Give its new MIDI number.

4. Move original event 1 up one octave. Give its new MIDI number.

5. Move original event 3 down one octave. Give its new MIDI number.

6. After pitch transposition only, when does event 2 start?

7. After pitch transposition, how long is event 2?

8. Events 1 and 2 are 4 semitones apart. Both move up 2 semitones. What is their new distance?

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1	C4 / 60	1	1
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3	G4 / 67	4	1

Use the model above. Write a brief answer for each item.

1. Transpose event 1 up 2 semitones. Give its new MIDI number.

62

2. Transpose event 2 up 2 semitones. Give its new MIDI number.

66

3. Transpose event 3 up 2 semitones. Give its new MIDI number.

69

4. Move original event 1 up one octave. Give its new MIDI number.

72

5. Move original event 3 down one octave. Give its new MIDI number.

55

6. After pitch transposition only, when does event 2 start?

Beat 2

7. After pitch transposition, how long is event 2?

2 beats

8. Events 1 and 2 are 4 semitones apart. Both move up 2 semitones. What is their new distance?

4 semitones: 66 - 62 = 4.