MIDI Duration and Velocity

Separate how long a note lasts from its attack data.

Name _____ Date _____

These are MIDI 1.0 note-on velocities (1-127). Velocity may affect loudness or tone depending on the instrument. Length is in beats; it is not velocity. All notes use the same preset.

Note	Pitch	Length (beats)	Velocity
1	C4	1	48
2	C4	2	48
3	C4	1	96
4	E4	1	72

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

1. Which two notes have the same pitch and velocity but different lengths?

2. Which C4 note lasts longest?

3. Which two notes differ only in velocity?

4. Which note has the largest velocity value?

5. Set note 2 to 1 beat. Which property changed?

6. Set note 1's velocity from 48 to 72. Does its length change?

7. Is velocity 96 guaranteed to sound twice as loud as 48?

8. For a longer note with the same attack value, edit length or velocity?

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4	E4	1	72

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

1. Which two notes have the same pitch and velocity but different lengths?

Notes 1 and 2

2. Which C4 note lasts longest?

Note 2: 2 beats

3. Which two notes differ only in velocity?

Notes 1 and 3

4. Which note has the largest velocity value?

Note 3: 96

5. Set note 2 to 1 beat. Which property changed?

Length (duration)

6. Set note 1's velocity from 48 to 72. Does its length change?

No. It remains 1 beat.

7. Is velocity 96 guaranteed to sound twice as loud as 48?

No. The instrument response determines the result.

8. For a longer note with the same attack value, edit length or velocity?

Length; keep velocity unchanged.