



A SEMINAR ON CASEY'S SCHOOLS OF INSTRUCTION

SCHOOLS OF THE SOLDIER AND COMPANY

MARCHING TURNS

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20 JANUARY 2018

UPDATED 2 OCTOBER 2026

TURNING

CHANGE OF DIRECTION TO THE SIDE OF THE GUIDE

- Before learning Turns, the soldiers need to know:
 - Marching By the Flank
 - Marching at the Oblique
- The turning point needs to be marked in advance.
- The turn is not a wheel!
 - Pivot man of each rank executes a by-the-flank, 90 degree turn.
 - Without slackening or quickening the cadence
 - Without shortening or lengthening the step
 - All other soldiers of the pivot man's rank simultaneously execute an oblique at the double-quick.
 - Double quick => go to right shoulder shift
 - Execute two obliques (45 degree turn each)
 - to make the 90 degree turn
 - Catch up to and align on their guide
 - Take the step from the guide
- This is similar to the execution of "By Company into Line".
 - Where each file aligns on their pivot man.

TURNING OR CHANGE OF DIRECTION TO THE SIDE OF THE GUIDE

Basis

- **S.S. 413.** The change of direction to the side of the guide, in marching, will be executed as follows: The instructor will command:
 - 1. *Left (or right) turn.* 2. *MARCH.*
- **S.S. 414.** The first command will be given when the rank is yet four paces from the turning point.
- **S.S. 415.** At the command march, to be pronounced at the instant the rank ought to turn, the guide will face to the left (or right) in marching, and move forward in the new direction without slackening or quickening the cadence, and without shortening or lengthening the step. The whole rank will promptly conform itself to the new direction: to effect which, each man will advance the shoulder opposite to the guide, take the double quick step, to carry himself in the new direction, turn the head and eyes to the side of the guide, and retake the touch of the elbow on that side, in placing himself on the alignment of the guide, from whom he will take the step, and then resume the direct position of the head. Each man will thus arrive successively on the alignment.

How many steps does each man in a file need to take in order to “to carry himself in the new direction”?

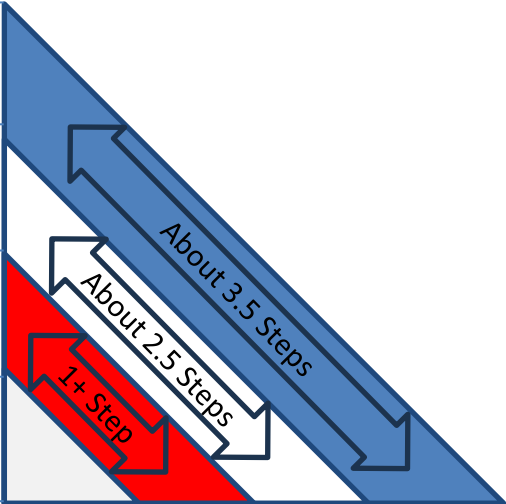
If diagrams were drawn to scale, the marching “lanes” form a right triangle.

Assume the width of each lane is 28 inches.

The choice of this width is based on the 28 inch side-step required of the rear rank when the Company is formed in two ranks and executes a Right or Left face to the Company flank, and the men double the files.

Recall from School of the Soldier:
S.S.111. The length of the double quick step is thirty-three inches

OK ... so I am a mathematician ...



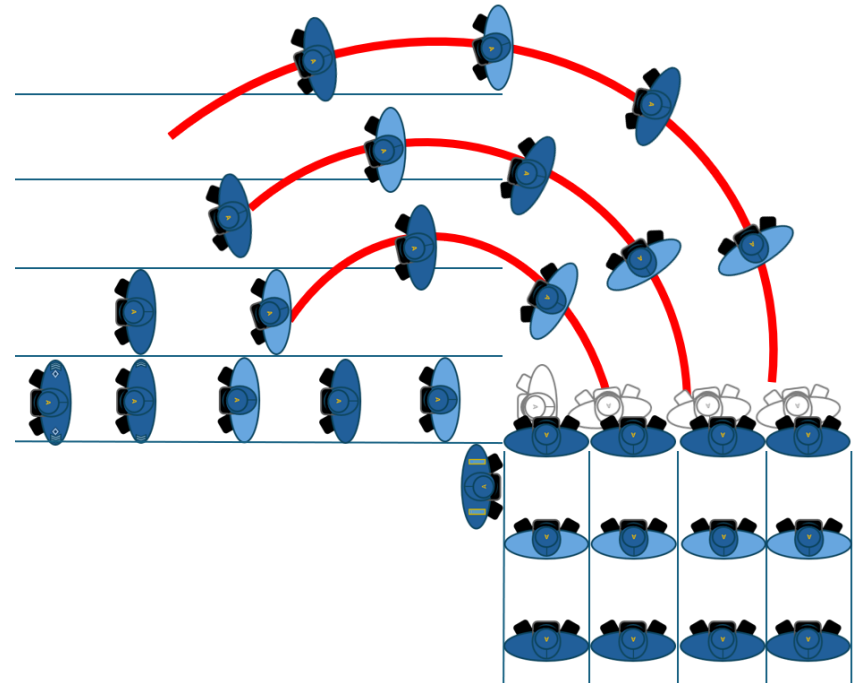
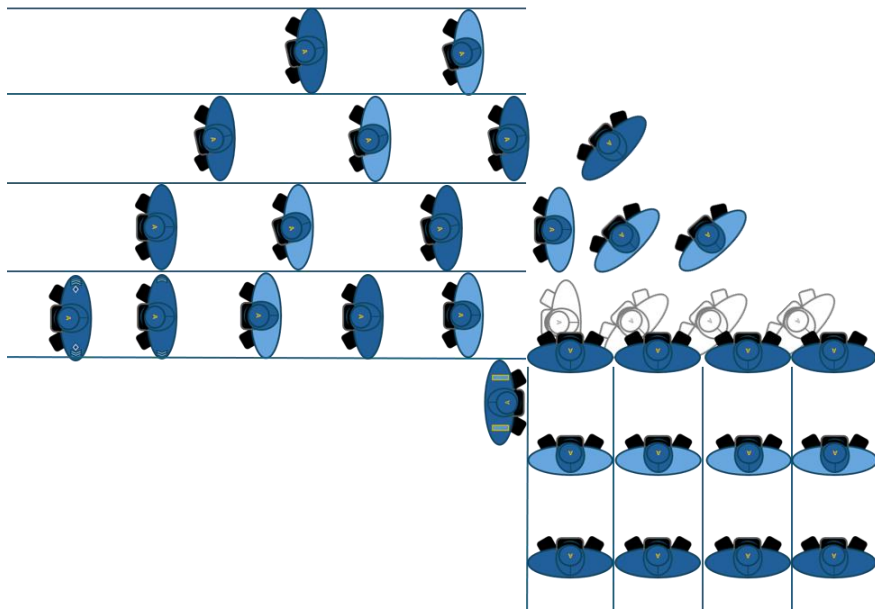
Pivot man	1 st man outside the pivot	2 nd man outside the pivot	3 rd man outside the pivot

First man on outside of pivot $a^2 + b^2 = c^2$ If $a = 28$ and $b = 28$ Then $784 + 784 = c^2$ $1568 = c^2$ $c = \text{approx } 39.6 \text{ inches}$ A little more than 1 step	Second man on outside of pivot $a^2 + b^2 = c^2$ If $a = 56$ and $b = 56$ Then $3136 + 3136 = c^2$ $6272 = c^2$ $c = \text{approx } 79.2 \text{ inches}$ Approximately 2.5 steps	Third man on outside of pivot $a^2 + b^2 = c^2$ If $a = 84$ and $b = 84$ Then $7056 + 7056 = c^2$ $14112 = c^2$ $c = \text{approx } 118.9 \text{ inches}$ Approximately 3.5 steps
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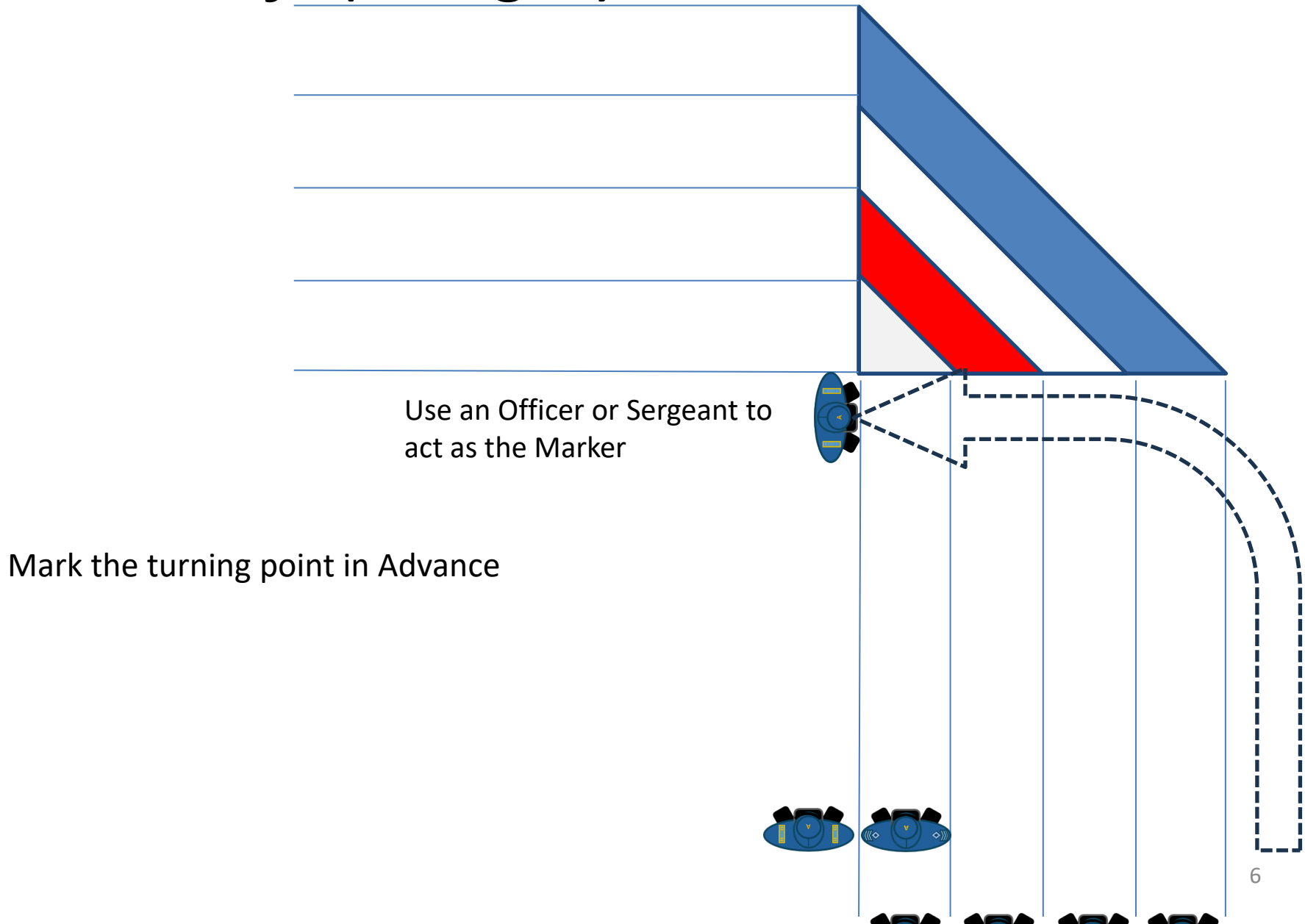
The obliques

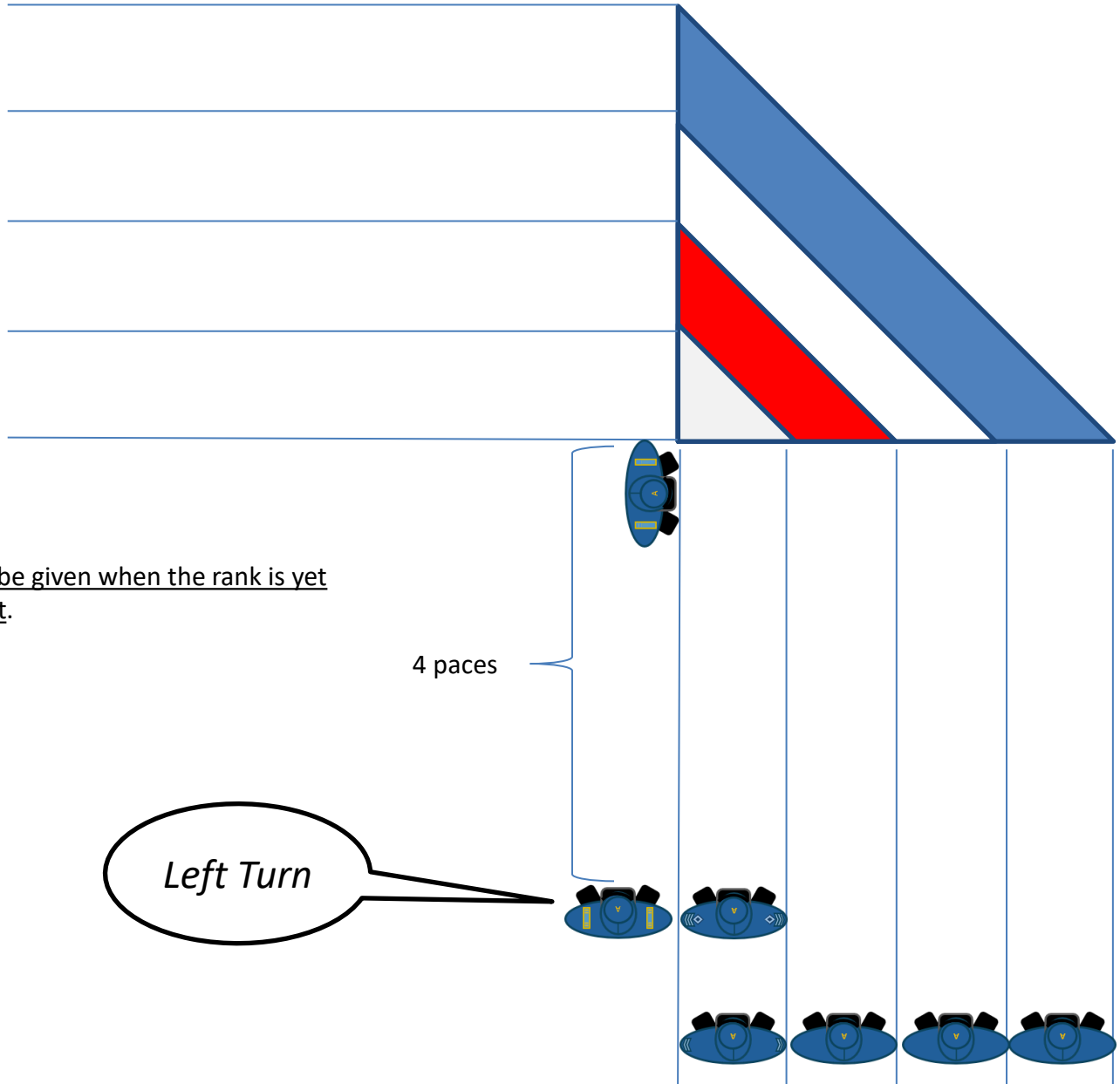
The men need to keep their obliques as close to their interval as possible.

Every foot a soldier swings away from the pivot point may be compounded by those soldiers following in his rank. All that deviation increases the amount of time required to reform the Company. It may also confuse the men as to who belongs in which file.



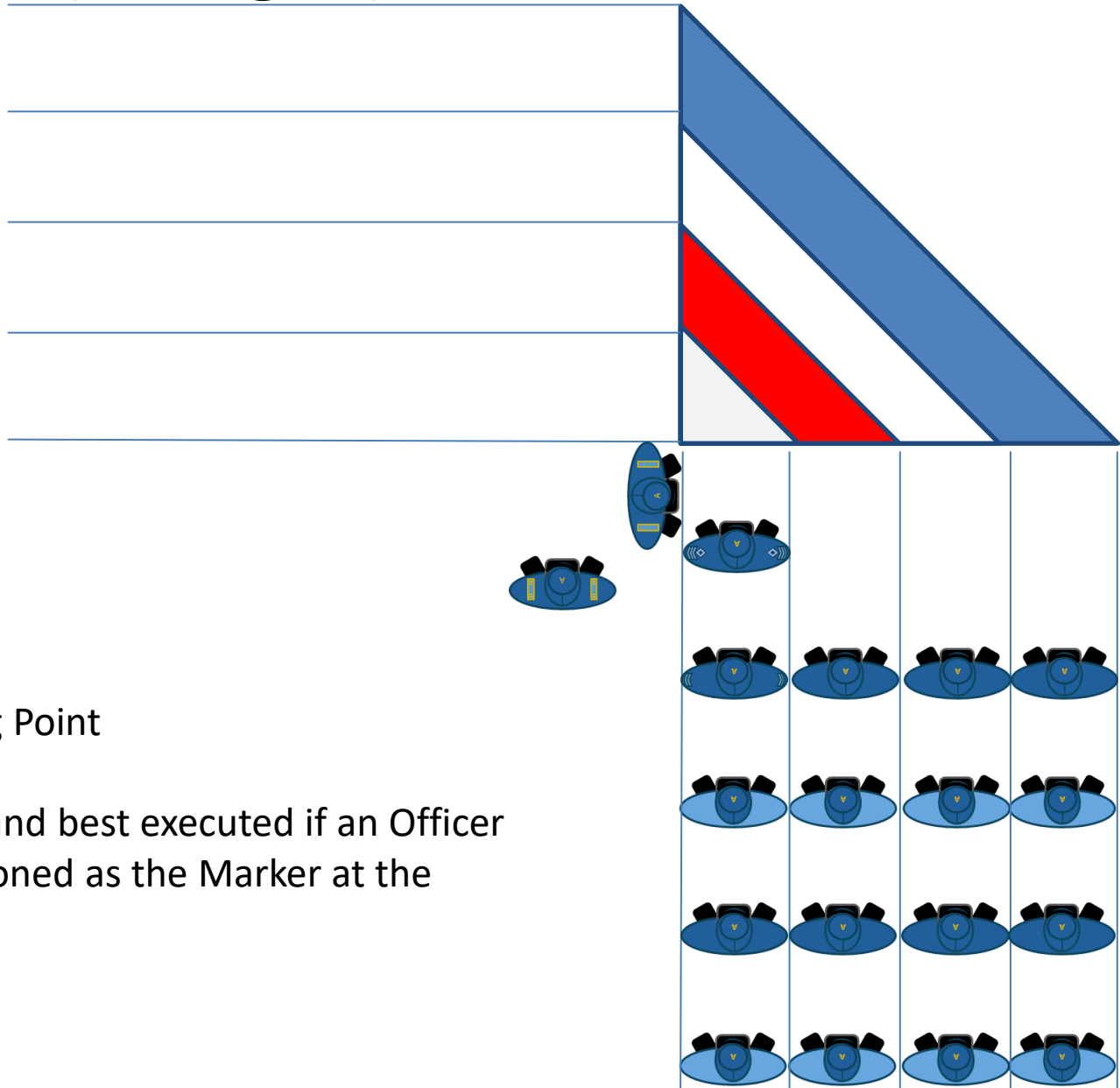
1. *Left (or right) turn.* 2. MARCH.





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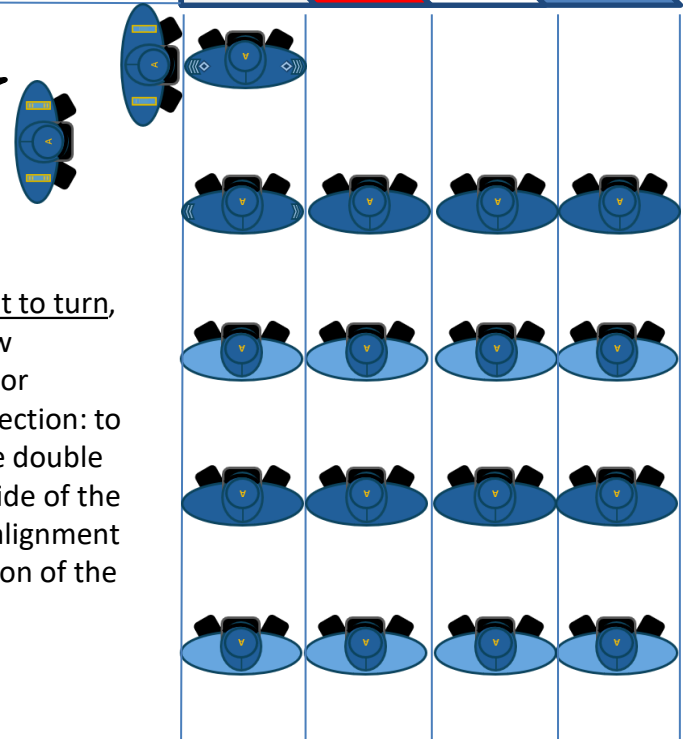
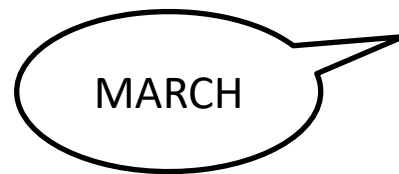
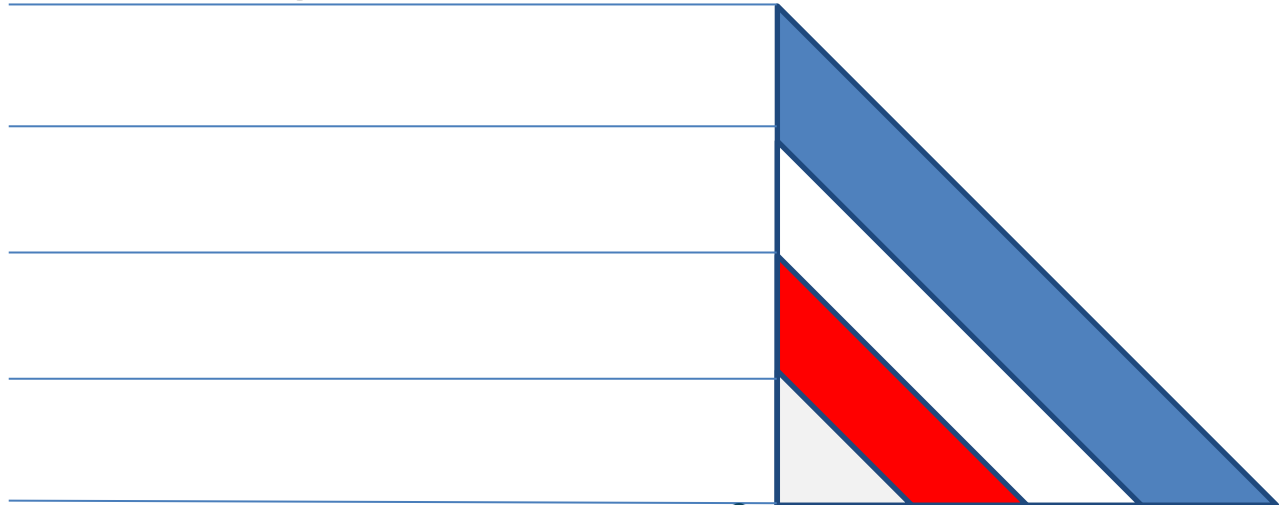
1. *Left (or right) turn.* 2. MARCH.



Guide
Approaches the Turning Point

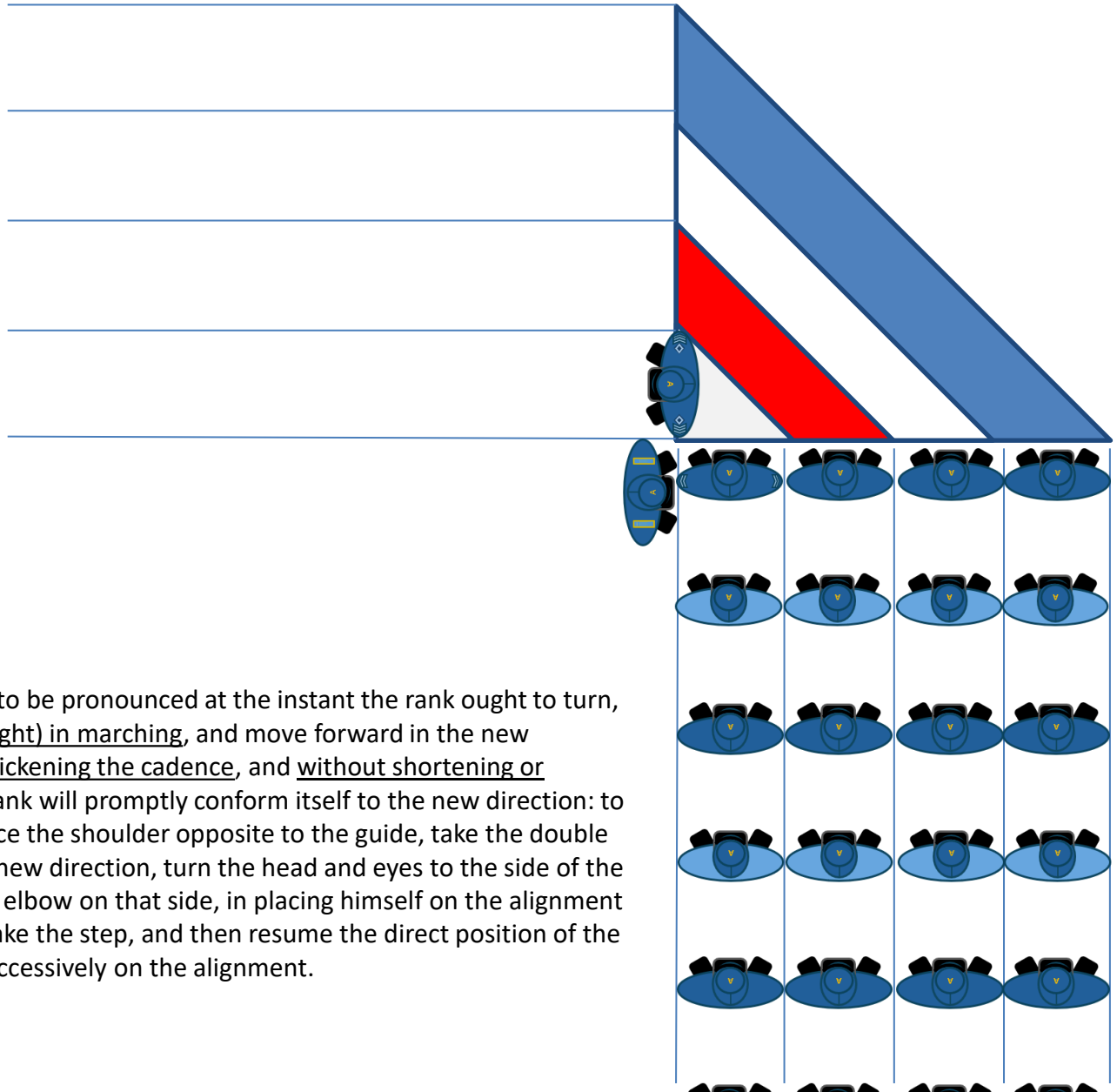
The is easiest to judge and best executed if an Officer
or NCO has been positioned as the Marker at the
Turning Point.

1. *Left (or right) turn.* 2. MARCH.

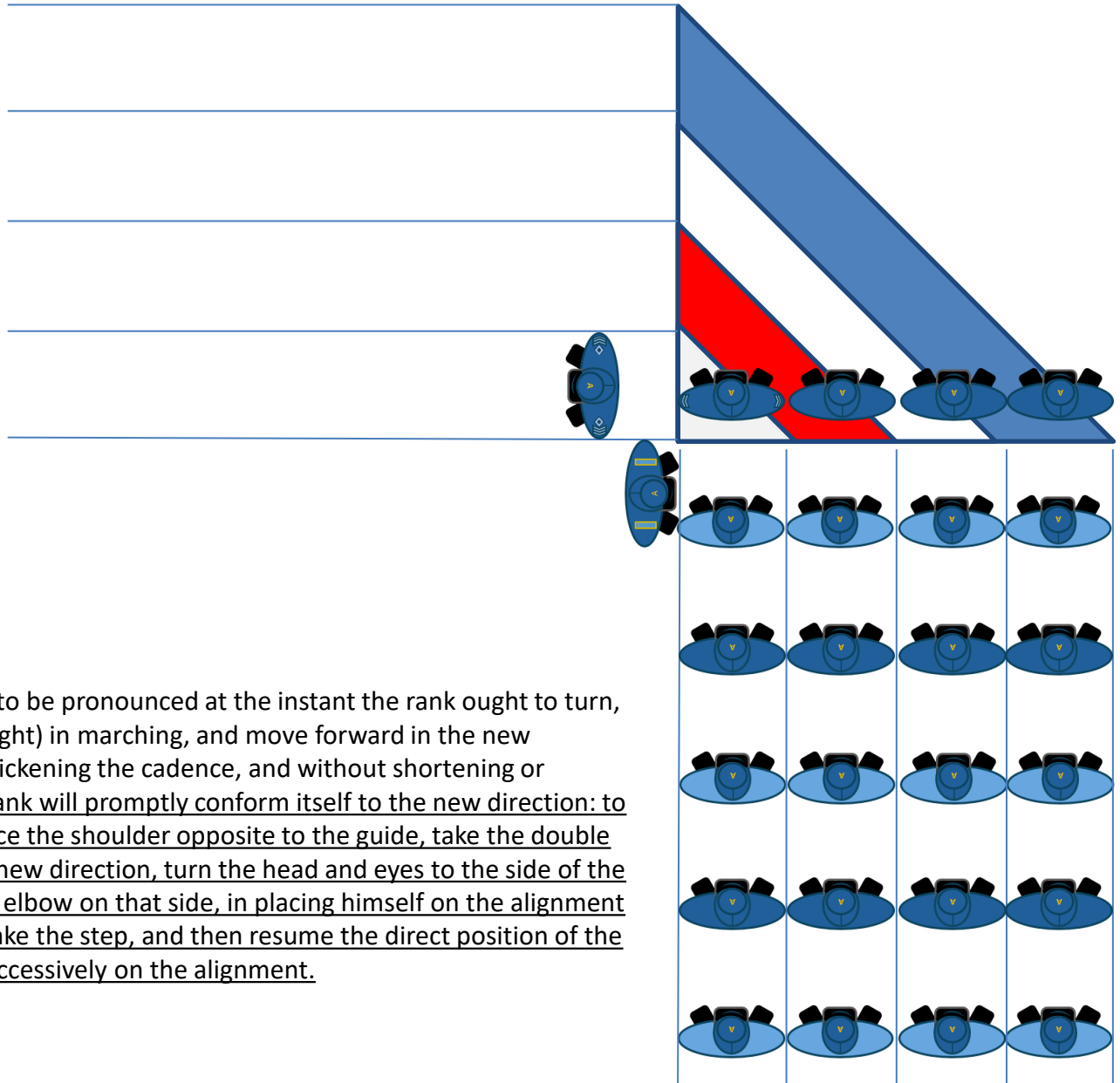


Guide
Arrives at the Turning Point

S.S. 415. At the command march, to be pronounced at the instant the rank ought to turn, the guide will face to the left (or right) in marching, and move forward in the new direction without slackening or quickening the cadence, and without shortening or lengthening the step. The whole rank will promptly conform itself to the new direction: to effect which, each man will advance the shoulder opposite to the guide, take the double quick step, to carry himself in the new direction, turn the head and eyes to the side of the guide, and retake the touch of the elbow on that side, in placing himself on the alignment of the guide, from whom he will take the step, and then resume the direct position of the head. Each man will thus arrive successively on the alignment.



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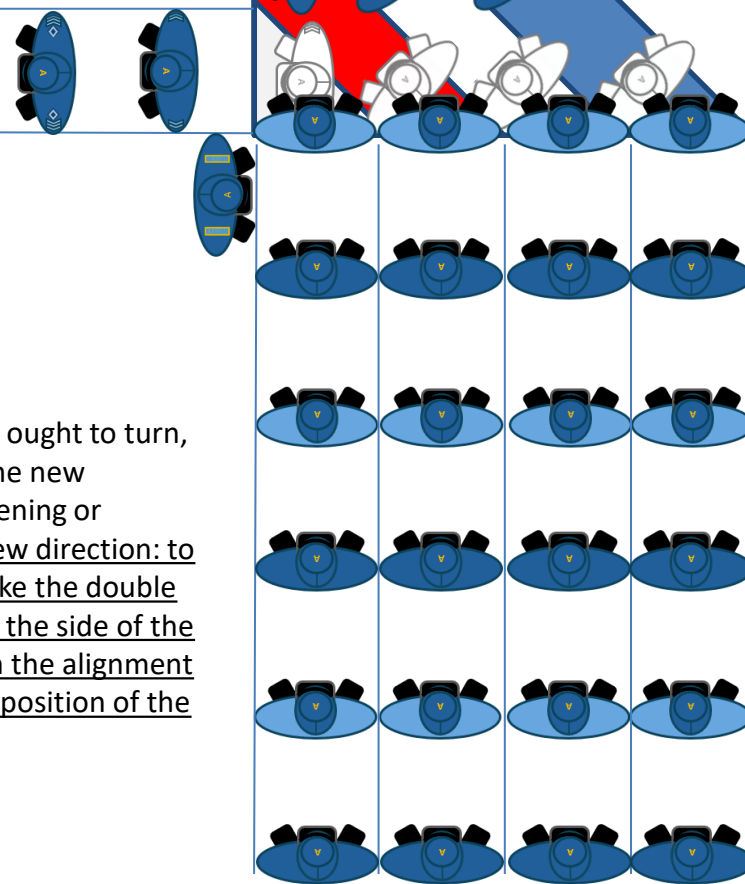
All other soldiers of that rank simultaneously:

- Execute the first of 2 obliques;
- Go to the double-quick;
- Go to right shoulder shift.

(because they are at the double-quick).

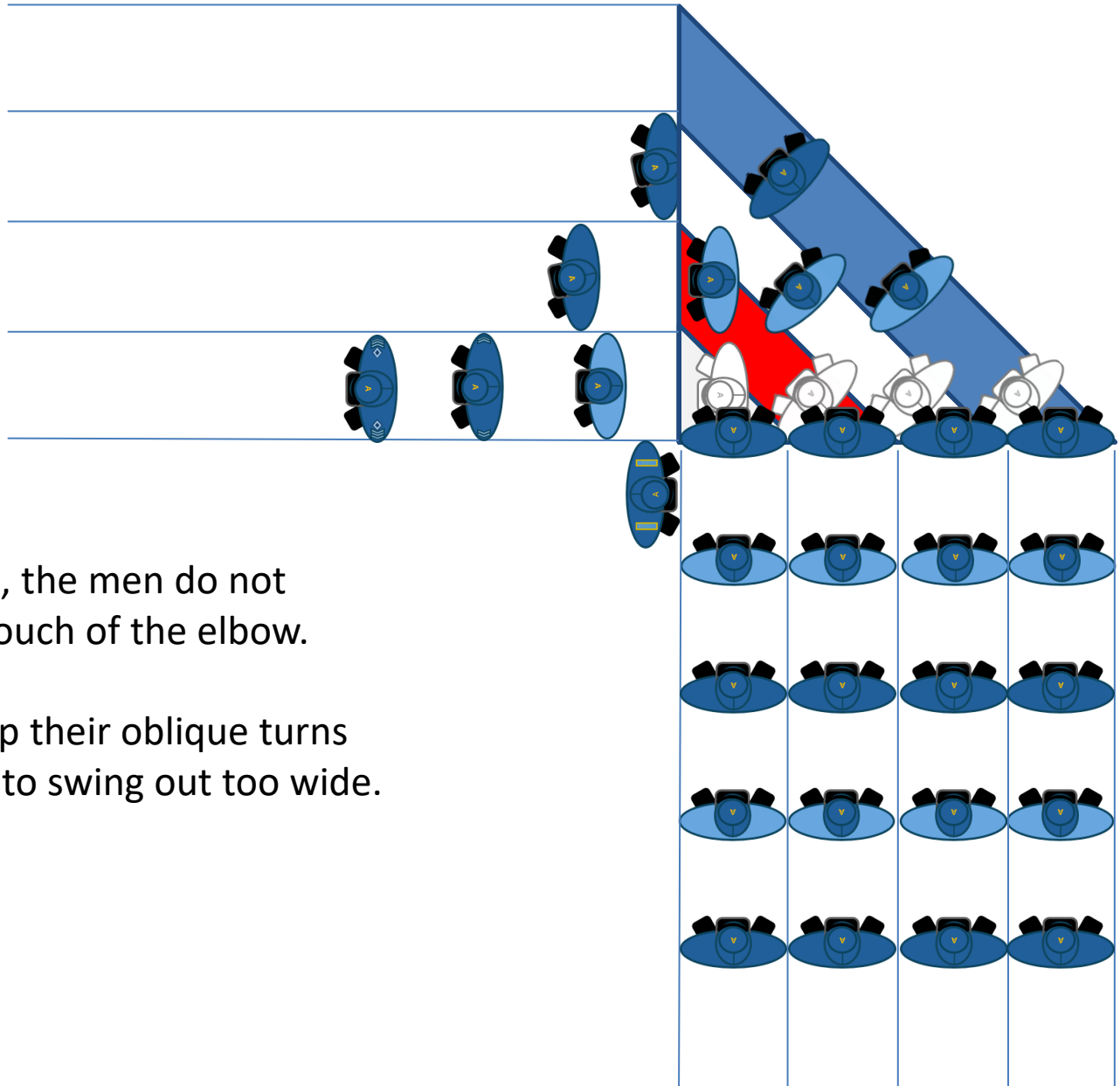
Each pivot man executes a by-the-left-flank-march:

- Without slackening or quickening the cadence;
- Without shortening or lengthening the step.



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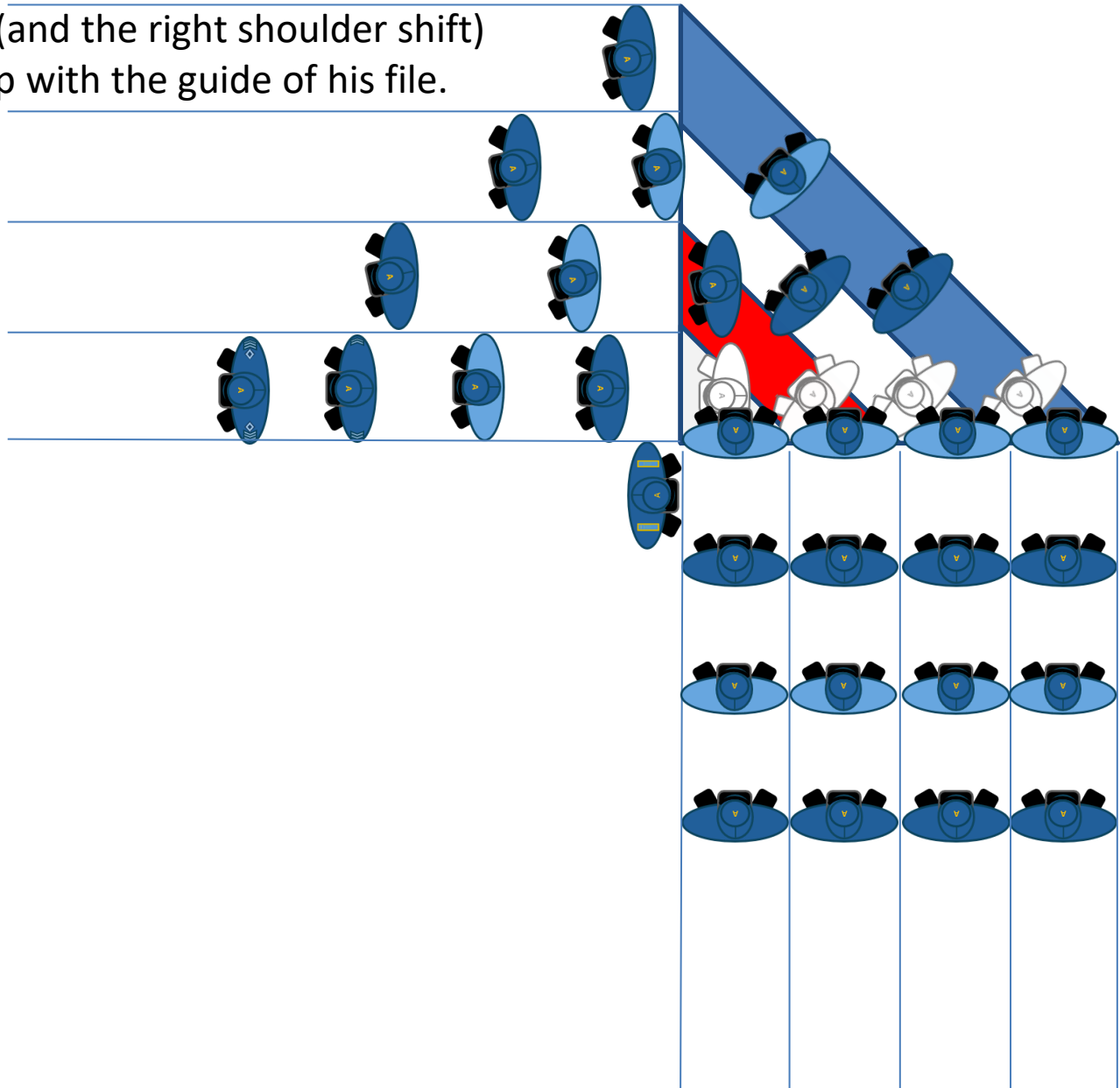
Upon reaching their "lane", each soldier will execute the second of their 2 obliques to square off their turn.

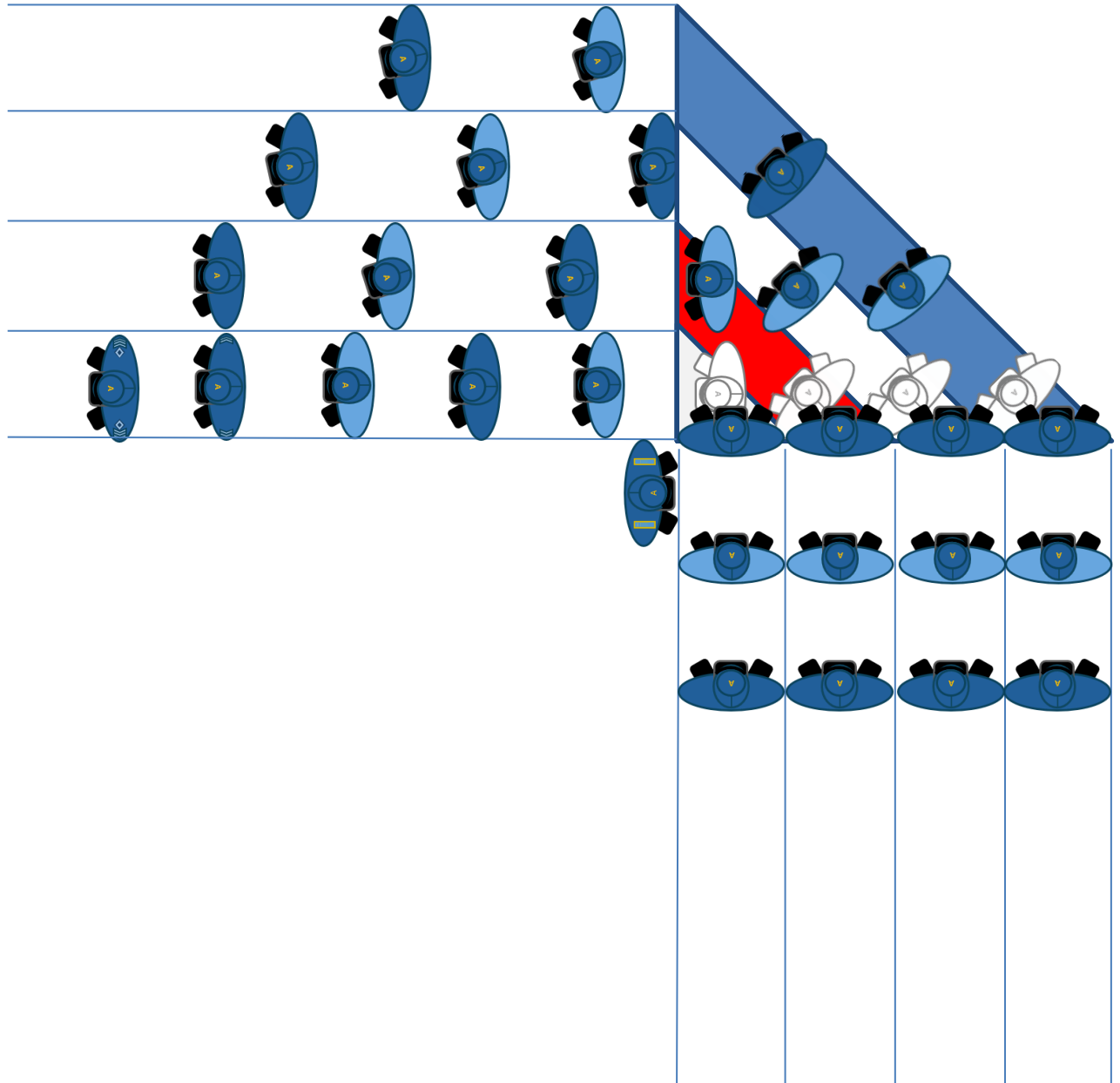


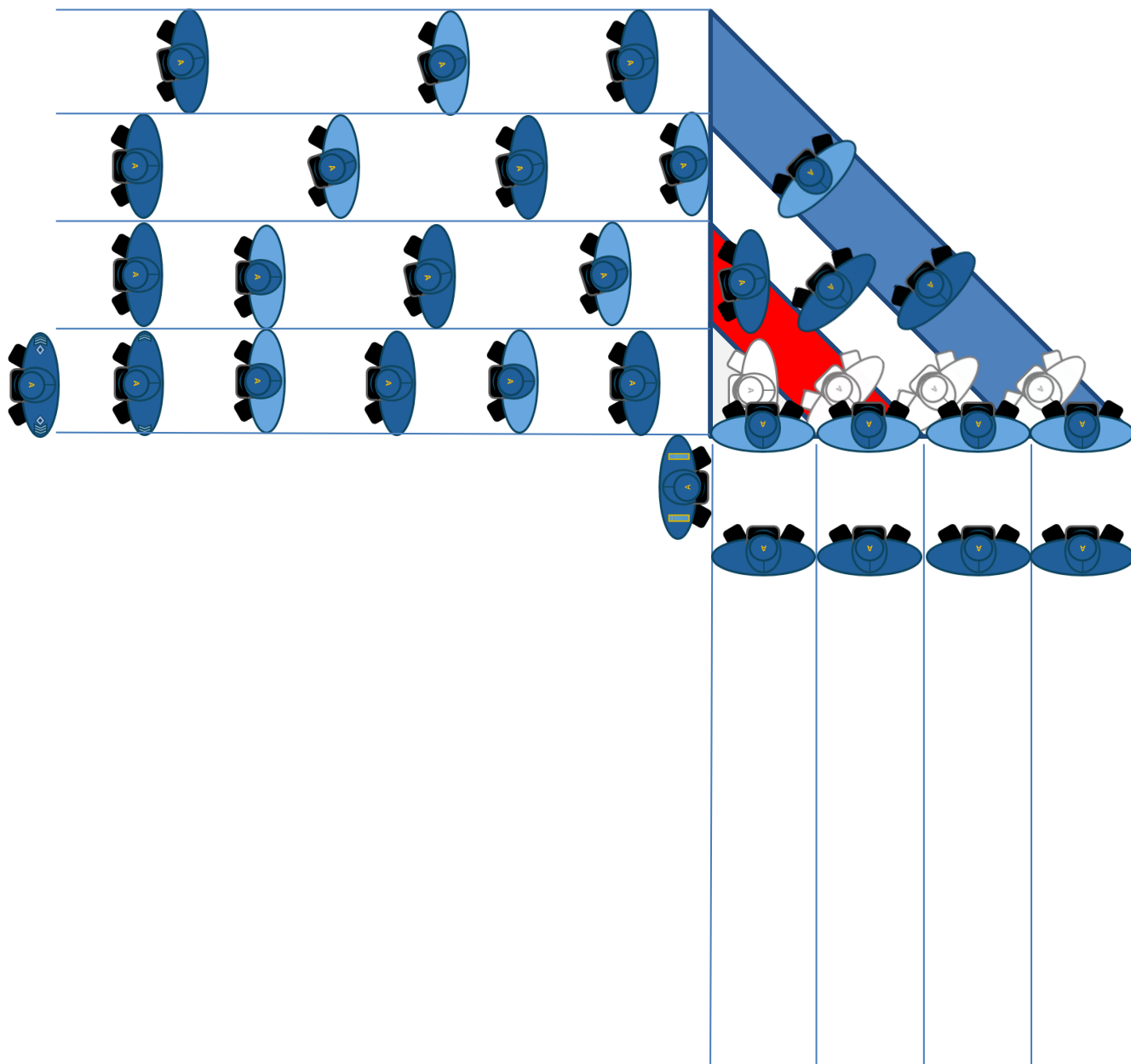
Unlike a wheel, the men do not maintain the touch of the elbow.

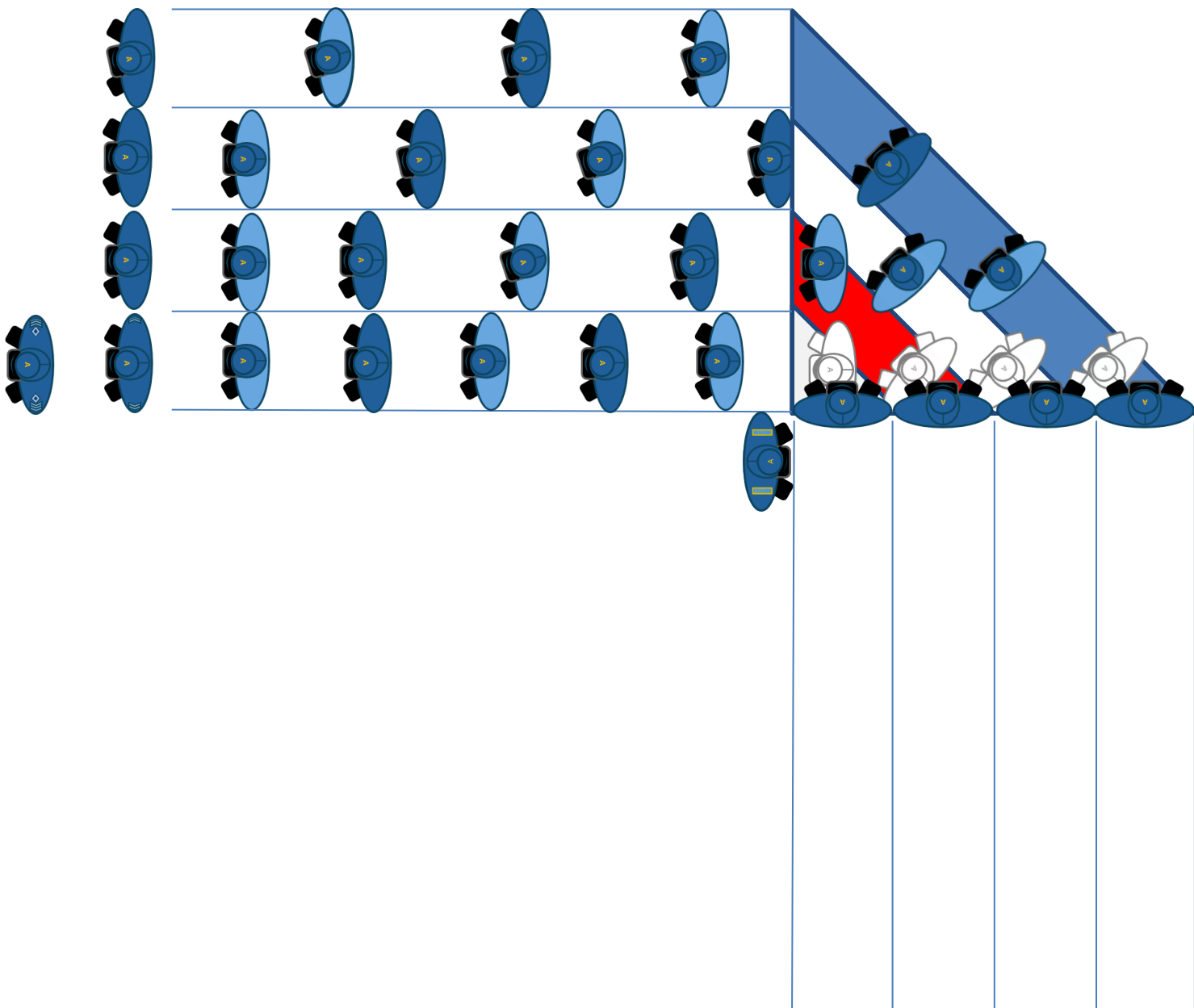
They must keep their oblique turns tight so as not to swing out too wide.

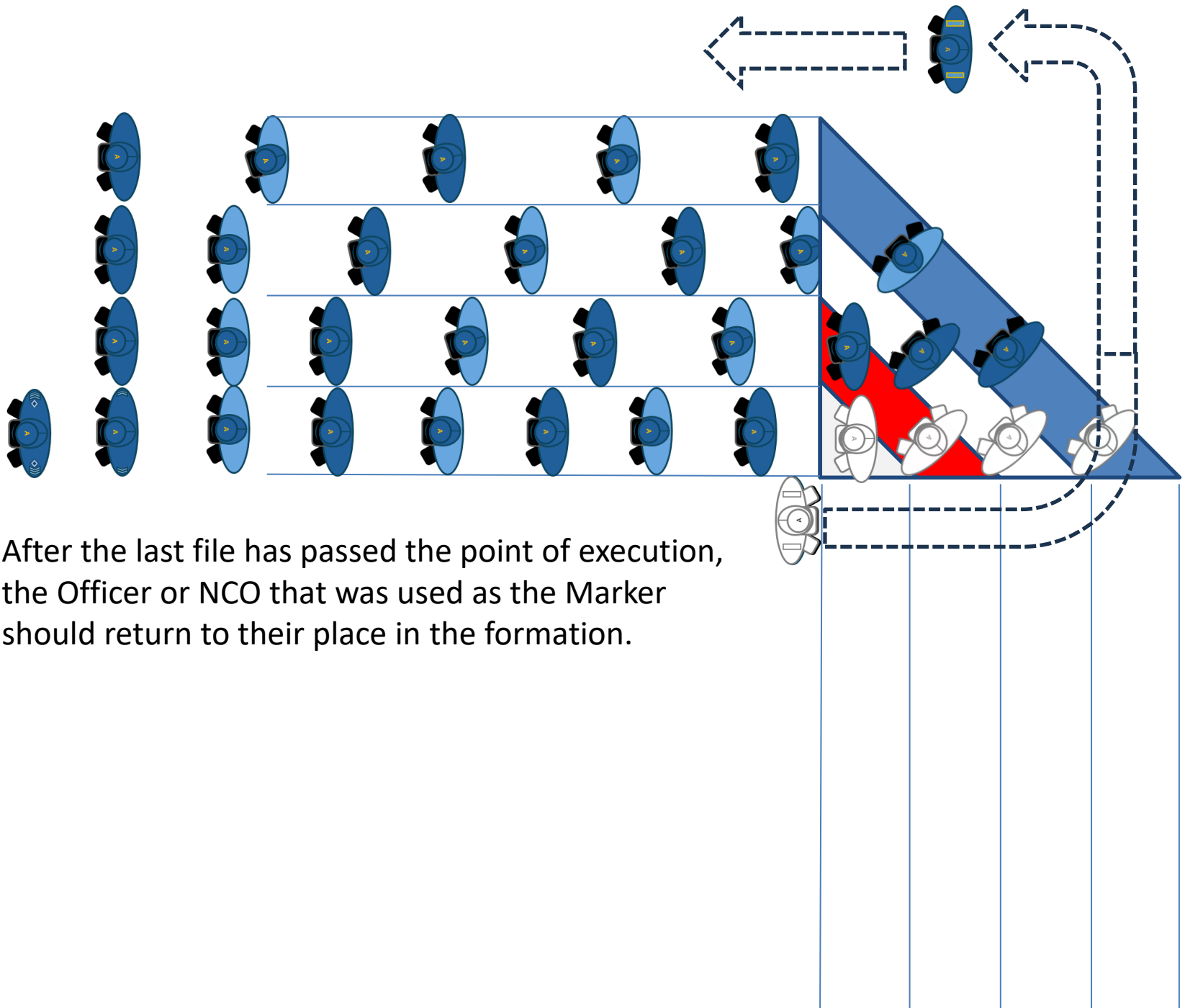
After executing the second of his 2 obliques to square off their turn, each soldier will continue at the double-quick (and the right shoulder shift) until he catches up with the guide of his file.

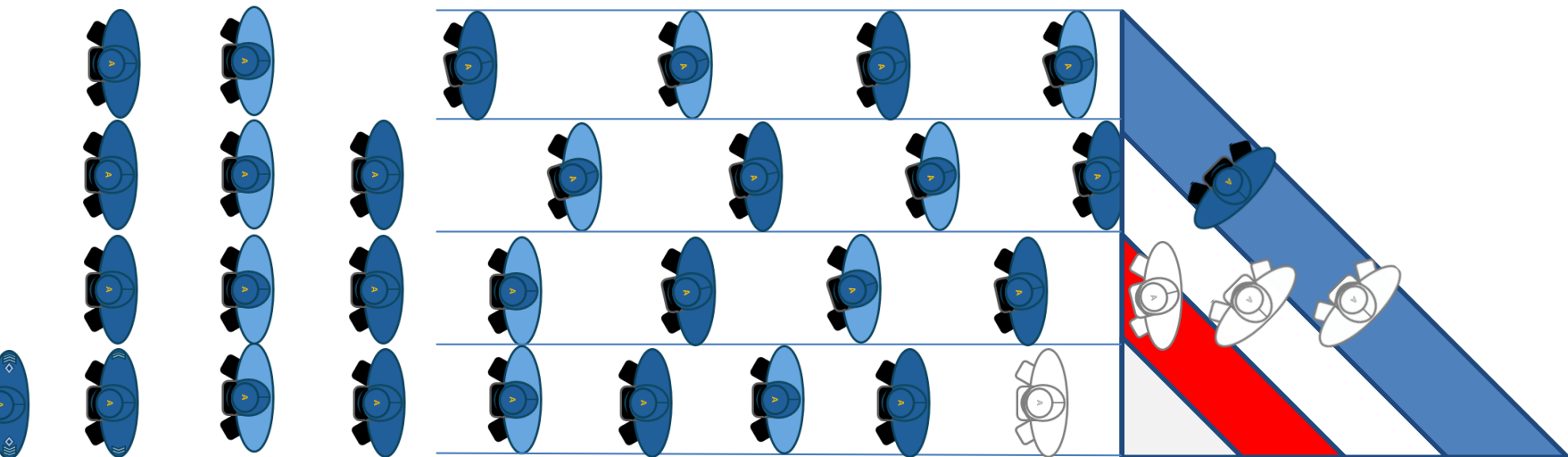


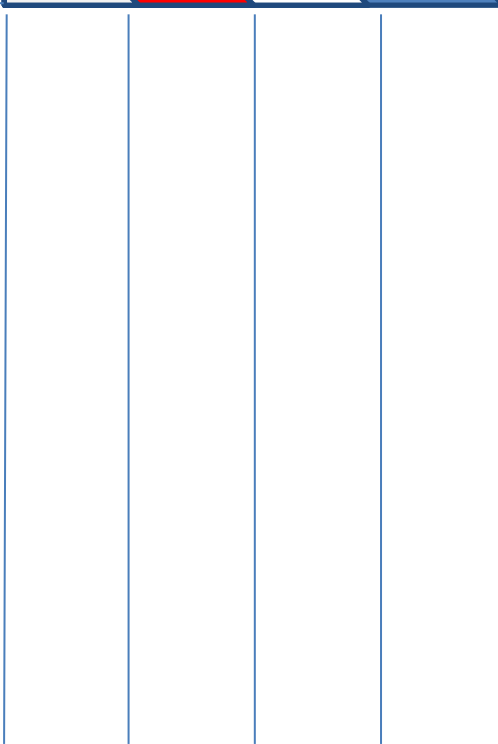


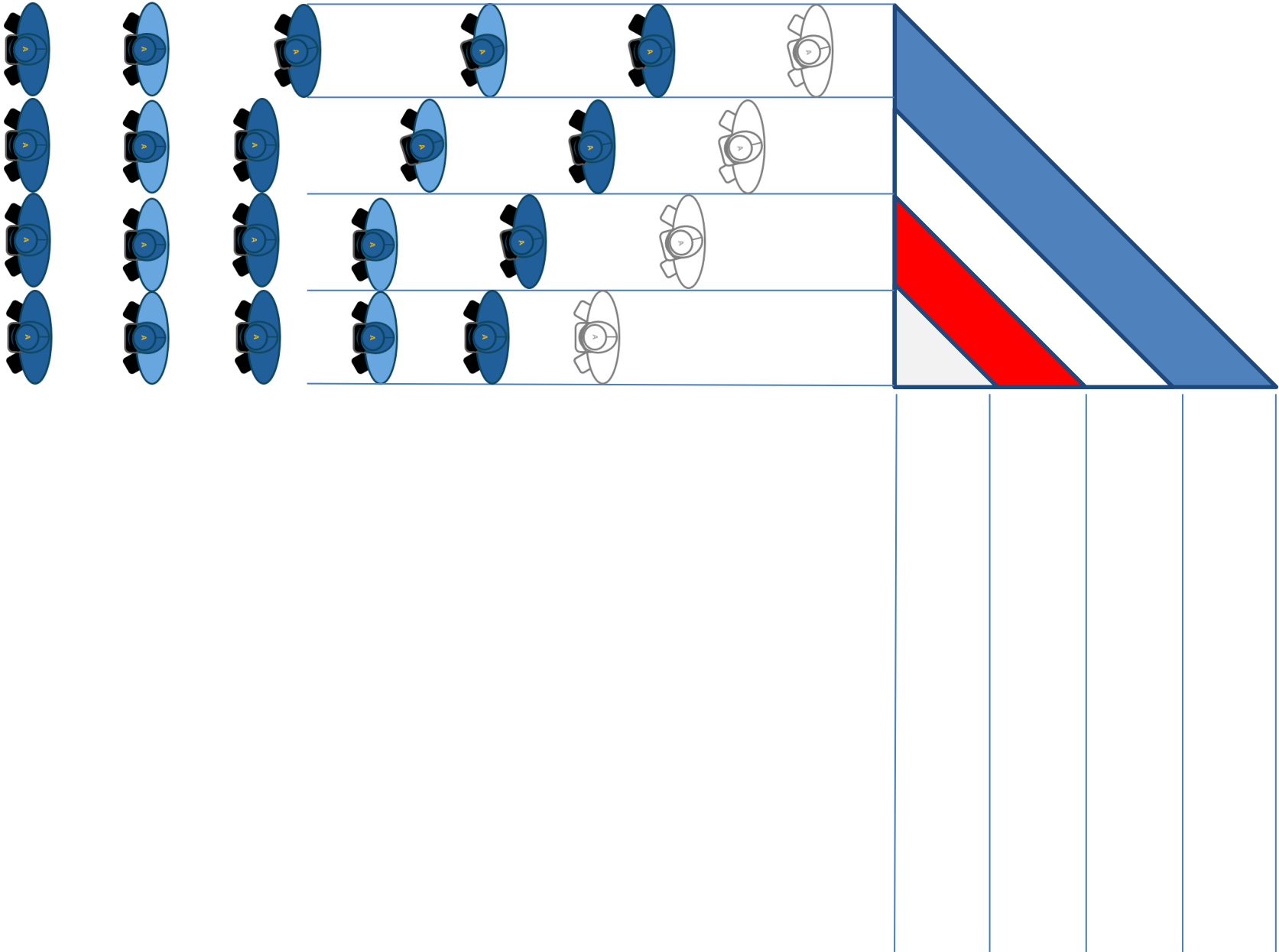


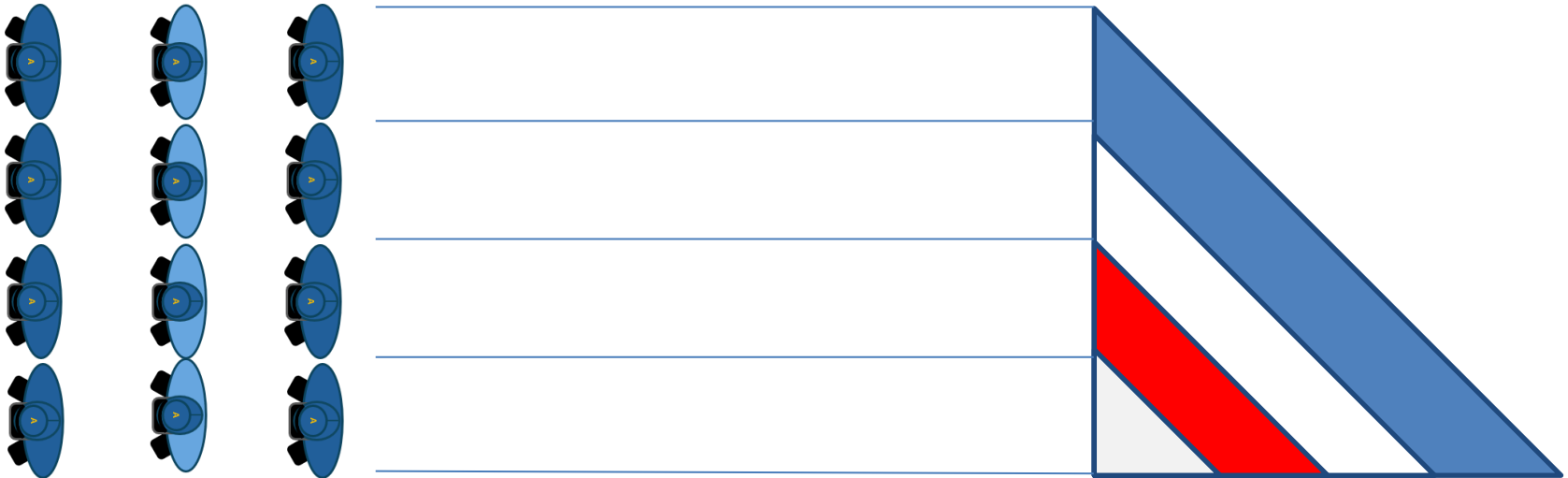












Continue until each soldier has caught up with the guide of his file.

End of Lesson