

Lighthouse at Alexandria: Solution

- 1) For each ship, solve the geometry problem to determine the final heading of the ship.
- 2) On the compass rose, find the letters/number pair for each heading.
- 3) Writing them in the numbered boxes also gives a color for each number.
- 3) The letters spell "DIPS BETWEEN BUOY PAIRS" and are a hint for the second part.
- 4) The numbers are distances (in waves/dips) between "strategically spaced" pairs of buoys.
- 5) Find the pair of buoys of the correct color that are the specified number of dips apart.
- 6) Write the pairs of letters on the buoys: AFTERSUNSET:4LETTERS
- 7) Answer word: DUSK

Ship	Final Heading				
1	NE	DI	14	Yellow	AF
2	30 deg N of W	PS	10	Blue	TE
3	SW	BE	7	Red	RS
4	S	TW	15	Yellow	UN
5	30 deg W of S	EE	6	Red	SE
6	30 deg S of W	NB	23	Blue	T:
7	30 deg W of N	UO	21	Yellow	4L
8	30 deg N of E	YP	12	Red	ET
9	W	AI	10	Blue	TE
10	E	RS	7	Red	RS