

GEOGRAPHY.

PROBLEMS IN GEOGRAPHY.

1. If a cold wave caused the thermometer to drop 20° in fifteen hours, how long before freezing point would be reached if it stood at 80 when the wave arrived?

2. If this wave moved at the rate of 1,000 miles a day, how long before it would reach a place 2,000 miles to the south-east, if it came from British America, and proceeded with full force?

3. A low-area storm is moving easterly from Chicago to Boston; if it moves 500 miles a day, and is central at Chicago at 7 o'clock p.m., when will it probably be felt at Boston, if not diverted?

4. A hurricane from the West Indies is advancing up the Atlantic coast at 100 miles an hour. It is central at St. Augustine at 6 p.m. When will it reach a place 200 (300, 400, or more,) miles north?

5. One knot equals one nautical mile, or 6,080 feet. If a log book of a sailing vessel records 11 knots an hour for $6\frac{1}{2}$ hours, 12 knots for 5 hours, how many feet? If port was 1,000 miles from a certain point, and the vessel proceeded at 10 knots an hour, how long before it arrived there?—*Popular Educator*.

METEOROLOGY.

The Thermometer rises with the East, South east and South winds, indicating foul weather conditions, and falls with the West, North-west, and North winds, indicating clear or colder conditions.

The Barometer rises with the West, North-west and North winds, indicating clear air, and cooler; falls with the East, South-east and South

winds, indicating foul or stormy weather.

Wind is air moving near the surface of the earth in a generally horizontal direction. Above this the air motions are called currents or upper winds.

Wind is estimated by direction, force, and velocity. Direction is shown by vanes, which move easily on an elevated pole.

Wind is called from the direction whence it comes, and these are N., E., S., W., and points between.

FORCE AND VELOCITY OF THE WIND.

Terms. Miles per Hour.

Calm.....	0
Very light breeze.....	2
Gentle breeze.....	7 or less
Fresh breeze.....	11
Strong wind.....	18
High Wind.....	27
Gale.....	36
Strong gale.....	45
Violent gale... ..	58
Hurricane.....	76
Most violent hurricane....	95

—*Popular Educator*.

My Book.—“And thus my book hath been so much my pleasure, and bringeth daily to me more pleasure and more, that in respect of it, all other pleasures in very deed, be but trifles and troubles unto me.”—*Lady Jane Gray*.

Life is *effectiveness*. The live tree is the tree that bears the apples. The live brain is the brain that thinks. The live truth is the truth that makes character and action.—*Phillip Brooks*.

Celerity is never more admired, than by the negligent.—*Antony and Cleopatra*, iii. 7.