

FORM IV.—SENIOR AND JUNIOR SECTIONS. FRENCH SCHOOLS

But the murmur of the river as it ran did not disturb the peaceful homes where everyone, even the little children earn their brown bread by carving wooden toys and images. But one day a sad sickness came and whoever had it died in a few hours. In their misery and despair they wrung their hands and cried, who can help us, and there seemed no hope. But the old village priest who had cared for and loved his people all his life stretched his hands towards heaven and cried: There is an Almighty Father above us, let us ask his help.

ARITHMETIC.

(Paper set for Highest Class at the Catholic Lyceum).

- (1) A man whose average step is $2\frac{1}{2}$ ft. walked 9 miles in $2\frac{1}{4}$ hrs. How many steps did he make on an average per minute.
- (2) A room is half as long again as it is wide. What fraction of the perimeter is the width?
- (3) What is the time when the hands of a watch are equally distant from the figure four?
- (4) Sold two houses for \$4,000 each. For one I received 20 per cent. more than the cost price and for the other 20 per cent. less than the cost. How much did I gain or lose on the whole?
- (5) A ditch 10 ft. wide at the top and 6 ft. wide at the bottom is to be dug 5 ft. deep. How many cubic yards are dug in every rod in length.
- (6) What must be the face value of a note made June 1st at 3 mos., and discounted the same day at 8 per cent. to produce \$870.

ALGEBRA AND GEOMETRY.

(Paper set for Highest Form of Catholic Lyceum).

- (1) Divide $x^3 + y^3 - z^3 + 3xyz$ by $x + y - z$.
- (2) Factor $x^5 - ax^4 + bx^3 - bx^2 + ax - 1$.
- (3) Solve the equation $(10x - 11)(11 + 2x) + (5x - 11)(11 + 3x) + (7x - 11)(11 - 5x) = 0$.
- (4) Find four consecutive numbers whose sum is 234.
- (5) If two straight lines cut each other, the vertically opposite angles must be equal.
- (6) If in a triangle the perpendicular from the vertex on the base bisect the base, the triangle is isosceles.