

ARITHMETIC.

1. What number is that to which if 45 and 6 times 45 be added, and the sum so found be further increased by 8 times itself, the total sum is 3069?
2. The French metre is the ten-millionth part of the quarter of the terrestrial meridian, and is equal to about 39·3708 English inches. How many English miles long is the meridian?
3. From 1 take $\frac{1}{2}$, from the remainder take $\frac{1}{3}$ of that remainder, and so on until the result is only a little over $\frac{1}{3}$.
4. If you gain 8 per cent. by selling an article at £5 10s. 6d. per cwt., how much per cent. will you gain by selling it at 1s. 8d. per pound?
5. A bill for £225 15s. 6d. is drawn on the 5th July at four months, and discounted on the 10th August at 6 per cent. : how much did the holder receive?
6. Extract the square root of $300\frac{1}{4}$.
7. A man can dig 77 sq. yd. in 9 hours : how many men can dig $2\frac{1}{2}$ acres in $5\frac{1}{2}$ days if they work 10 hours a day?
8. A bought a block of land for £6,700, and sold it immediately afterwards to B, who gave him £500 on his bargain, giving him bills at three, six, and nine months for three equal amounts. A got the bills discounted, money being worth 6 per cent. per annum : what did he make by the transaction?
9. Express 101 of 1lb. 5oz. as a decimal of $\frac{1}{4}$ of 1qr. 22lb. 8oz.
10. Find the length, breadth, and height of a room which contains 64,000 cubic feet of air, the length being twice and the height half the breadth.
11. I travelled 1,430 miles by coach, railway, and steamer—by coach a quarter of the distance that I went by railway, which was half that by steamer; the steamer expenses came to $5\frac{1}{2}$ d. a mile, those by railway $\frac{3}{4}$ of that rate, and those by coach $\frac{1}{2}$ of the rate by railway. How much did my journey cost, and what was the average rate per mile?

GEOGRAPHY.

1. What are the Maori names of the North, Middle, and Stewart Islands? What names did the English first give them? What were the names of the provinces into which they were afterwards divided? What counties is the colony now divided into?
2. If you went in a direct line from Cape Matapan to the North Cape, what countries would you pass through, and what salt water would you have to sail across?
3. Draw a sketch-map of Egypt, Nubia, Abyssinia, and that portion of the Soudan made interesting by recent events, tracing the course of the Nile, and marking the most noted places.
4. Which are the principal coal-producing countries of Europe, Asia, Africa, and America respectively; and where is it chiefly found in Australia and New Zealand?
5. Describe steppes, meers, dunes, llanos, selvas, pampas, and prairies, and say where they are found.
6. Name the chief peninsulas of Asia and America.

LATIN.

1. Translate—

Delicta majorum immeritus lues,	Jam bis Monaeses et Pacori manus
Romane, donec templa refeceris,	Non auspicatos contudit impetus
Aedesque labentes deorum, et	Nostros, et adjecisse praedam
Foeda nigro simulacra fumo.	Torquibus exiguis renidet.
Dis te minorem quod geris, imperas :	Paene occupatam seditionibus
Hinc omne principium, huc refer exitum.	Delevit urbem Dacus et Aethiops ;
Di multa neglecti dederunt	Hic classe formidatus, ille
Hesperiae mala luctuosae.	Missilibus melior sagittis.
2. Where is this ode supposed to have been written? Who were Monaeses, Pacorus, Dacus, and Aethiops?
3. Translate—

Descriptas servare vices operumque colores,
Cur ego, si nequeo ignoroque, poëta salutor?
Cur nescire, pudens prave, quam discere malo?
Versibus exponi tragicis res comica non vult :
Indignatur item privatis, ac prope socco
Dignis carminibus narrari coena Thyestae.
Singula quaeque locum teneant sortita decenter.
Interdum tamen et vocem Comoedia tollit,
Iratusque Chremes tumido delitigat ore :
Et tragicus plerumque dolet sermone pedestri.
Telephus et Peleus, quum pauper et exsul, uterque
Projicit ampullas et sesquipedia verba,
Si curat cor spectantis tetigisse querela.
4. Parse, making any notes you think necessary,—

Versibus exponi tragicis res comica non vult.