

Saint Andrew

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NO. 43

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May 6, 1875—1f.

THE REAPERS.

The reaper bend their lusty backs,
Their sounding sickles away;
At every stroke the golden ear
Nods to the breeze in glad array.
The heavy ears fall lowing down,
And nestle at their work as they perform,
Such will, such work as theirs, perform,
Most win—most homage meet.

No careless of fatigue they go,
So true, so steady,
The admiring traveler on the road
Lends o'er the gate to pass,
With marvel of the soon-fallen breadth,
The longing gaze he tells,
But hush! he says, "I give thee all;
'Tis need they should work well.

See the great man that turns about
Shall charm them in the West,
And the children's poppy nosegay fade,
And they lie down to rest,
Each goodly ear that upward points
Shall fall upon the sickle's edge,
And the farmer draw a sparkling gleam,
Rejoicing o'er the yield.

Ply, bonny men, your sickles bright,
And give the people bread!
At every conquering stride you take,
On oat and rye you tread,
Drop heavy showers give the strength
You gather from the plain,
That man may rise refreshed and firm,
And do great things again.

God bless the hands, all hard and brown,
That guide the cleaving plough,
That cut abroad the shining seed,
And build the wealthy row;
They reap the bread our children eat,
'Tis by their toil we live,
Hurrah! give them the loudest cheer
That grateful hearts can give!

ON SOME STRANGE MENTAL FEATS.

Zerah Colburn was the son of an American peasant or small farmer. When he was not six years of age, he surprised his father by his readiness in multiplying numbers and solving other simple arithmetical problems. He was brought to London in 1815, when only eight years old, and his powers were further developed by Francis Baily and other skillful mathematicians. From Carpenter's synopsis of the experiments thus made the following account is taken, technical expressions being as far as possible eliminated (or not used until explained):

He would multiply any number less than 10 into itself successively nine times, giving the results by actual multiplication, not from memory! Faster than the person appointed to record them could set them down. He multiplied 8 into itself fifteen times, or, in technical terms, raised it to the sixteenth power; and the result, consisting of fifteen digits, was right in every figure. He raised some numbers of two figures as high as the eighth power, but found a difficulty in proceeding when the result contained a great number of figures.

So far there is nothing that cannot be explained (or which could not, if other facts did not render the explanation invalid) by assuming that the child possessed simply the power of multiplying mentally, with extreme rapidity and correctness, but in the ordinary way. But the next test removes at once all possibility of explaining his work as done in the ordinary manner. He was asked what number, multiplied by itself, gave 106,929, and he answered 327, before the original number could be written down. This was wonderful. But he next achieved a more wonderful feat still, judging his work by the usual rules. He was asked what number, multiplied twice into itself, gave 268,336,125—in other words, to find the cube root of that array of digits; with equal facility and promptness he replied 645. Now, any one acquainted with the process for finding the cube root—even the most convenient form of the process, as presented by Colenso and others—knows that the cube root of a number of nine digits could not be written down, with pen and paper, in less than three or four minutes, if so soon. If the computer had so perfect a power of calculating mentally that he could proceed as safely as though writing down every step, and as rapidly with each line as Colburn himself in the simple processes before described, he would yet need half a minute at least to get the correct result. This, too, would imply such a power of mentally picturing sets of figures that, even if explained Colburn's work, it would still be altogether marvelous, if not utterly inexplicable. We know, however, that Colburn was not following ordinary rules, but a method peculiar to himself. In point of fact, he was so entirely ignorant of the usual modes of procedure, that he could not perform on paper a simple sum in multiplication or division.

On being asked how many minutes there are in 48 years, he answered, because the question could be written down, 25,228,800; which is correct, if the extra days for leap years are left out of account. He immediately after gave the correct number of seconds.
We come next, however, to results which appear much more surprising to the mathematician than any of the above, because they relate to questions for which mathematicians have not been able to provide any systematic method of procedure whatever. He was asked to name two numbers which, multiplied together, would give the number 247,483, and he immediately named 941 and 263, which are the only two numbers satisfying the condition. The same problem being set with respect to the number 171,395, he named the following pairs of numbers: 5 and 34,279; 7 and 24,485; 9 and 19,025; 11 and 15,581; 13 and 13,261; 17 and 10,141; 19 and 9,021; 23 and 7,713; 29 and 6,117; 31 and 5,723; 37 and 4,795; 41 and 4,327; 43 and 4,125; 47 and 3,989; 53 and 3,725; 59 and 3,515; 67 and 3,687; 71 and 3,485; 73 and 3,459; 79 and 3,449; 83 and 3,401; 89 and 3,343; 97 and 3,267; 101 and 3,227; 103 and 3,203; 107 and 3,177; 109 and 3,157; 113 and 3,133; 127 and 3,071; 131 and 3,053; 137 and 3,031; 139 and 3,021; 143 and 3,007; 149 and 2,987; 151 and 2,981; 157 and 2,961; 163 and 2,945; 167 and 2,935; 173 and 2,919; 179 and 2,903; 181 and 2,897; 187 and 2,877; 191 and 2,867; 193 and 2,861; 197 and 2,849; 199 and 2,843; 203 and 2,827; 209 and 2,811; 211 and 2,805; 217 and 2,789; 223 and 2,773; 227 and 2,763; 229 and 2,757; 233 and 2,741; 239 and 2,725; 241 and 2,719; 247 and 2,703; 251 and 2,687; 257 and 2,671; 263 and 2,655; 269 and 2,639; 271 and 2,633; 277 and 2,617; 281 and 2,611; 283 and 2,605; 287 and 2,589; 293 and 2,573; 299 and 2,557; 307 and 2,541; 311 and 2,535; 313 and 2,529; 317 and 2,513; 323 and 2,497; 327 and 2,491; 331 and 2,475; 337 and 2,459; 341 and 2,453; 347 and 2,437; 353 and 2,421; 359 and 2,405; 367 and 2,389; 371 and 2,383; 373 and 2,383; 379 and 2,367; 383 and 2,361; 389 and 2,351; 397 and 2,335; 401 and 2,329; 403 and 2,323; 407 and 2,307; 409 and 2,301; 413 and 2,291; 419 and 2,275; 421 and 2,269; 427 and 2,253; 431 and 2,247; 433 and 2,241; 437 and 2,225; 439 and 2,219; 443 and 2,209; 449 and 2,193; 451 and 2,187; 457 and 2,171; 461 and 2,165; 463 and 2,159; 467 and 2,143; 471 and 2,137; 473 and 2,131; 479 and 2,115; 481 and 2,109; 483 and 2,103; 487 and 2,087; 491 and 2,081; 493 and 2,081; 497 and 2,065; 503 and 2,049; 509 and 2,033; 511 and 2,027; 513 and 2,021; 517 and 2,005; 521 and 1,999; 523 and 1,993; 527 and 1,977; 531 and 1,971; 533 and 1,965; 537 and 1,949; 539 and 1,943; 541 and 1,937; 547 and 1,921; 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