| | Estimated Extent | | | Gross Estimated Rental | | | Rateable Value | | | 6 in the £ | | | 1/6 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | R | P | £ | s | d | £ | s | d | £ | s | d | | | |
| | | | 33 | 6 | 10 | | 5 | 5 | | | 2 | 7½ | | 7 | 10½ |
| | | | | 2 | 2 | 6 | 2 | 2 | 6 | | 1 | | | 3 | 2¼ |
| enhages | 146 | | 16 | 166 | 15 | | 145 | 15 | | 3 | 12 | 10½ | 10 | 18 | 7½ |
| | 156 | | 6 | 151 | 7 | 6 | 132 | 10 | | 3 | 6 | 3 | 9 | 18 | 9 |
| | 59 | 3 | 25 | 73 | | | 63 | 17 | 6 | 1 | 11 | 11¼ | 4 | 15 | 9¾ |
| ashford | 81 | 0 | 10 | 123 | | | 107 | 12 | 6 | 2 | 13 | 9¾ | 8 | 1 | 5¼ |
| | 17 | 1 | 20 | 27 | 15 | | 24 | 5 | | | 12 | 1½ | 1 | 16 | 4½ |
| | 142 | 1 | 37 | 138 | 10 | | 121 | 7 | 6 | 3 | 0 | 5¼ | 9 | 2 | 0¾ |
| | 41 | 6 | 6 | 51 | 10 | | 45 | | | 1 | 2 | 6 | 3 | 7 | 6 |
| | 4 | 3 | 2 | 23 | | | 19 | 5 | | | 9 | 7½ | 1 | 8 | 10½ |
| | | 2 | 2 | 6 | 10 | | 5 | 5 | | | 2 | 7½ | | 7 | 10½ |
| | 1 | 1 | 38 | 7 | | | 5 | 12 | 6 | | 2 | 9¾ | | 8 | 5¼ |
| | | | 20 | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | | | | 29 | | | | | | | | | | | |
| | 19 | 2 | 39 | 29 | | | 28 | 5 | | | 14 | 1½ | 2 | 2 | 4½ |
| | 673 | 1 | 14 | 809 | 2 | 6 | 708 | 12 | 6 | 17 | 14 | 3¾ | 52 | 2 | 11¼ |
| | 34 | | 19 | 49 | 12 | 6 | 43 | 10 | | 1 | 1 | 9 | 3 | 5 | 3 |
| | 27 | | 26 | 45 | 15 | | 40 | | | 1 | 0 | 0 | 3 | 0 | 0 |
| | 28 | 2 | 19 | 39 | 15 | | 34 | 15 | | | 17 | 4½ | 2 | 12 | 1½ |
| | 2 | 1 | 34 | 7 | 10 | | 6 | 10 | | | 3 | 3 | | 9 | 1 |
| | 269 | | | 348 | | | 304 | 10 | | 7 | 12 | 3 | 22 | 16 | 9 |
| | 1 | | 36 | 5 | 5 | | 4 | 5 | | | 2 | 1½ | | 6 | 4½ |
| | 47 | 1 | 35 | 63 | | | 55 | 2 | 6 | 1 | 7 | 6¾ | 4 | 2 | 8¼ |
| | 51 | 1 | 35 | 79 | 7 | 6 | 69 | 2 | 6 | 1 | 14 | 6¾ | 5 | 3 | 8¼ |
| | 20 | | | 3 | 15 | | 3 | 12 | 6 | | 1 | 9¾ | | 5 | 5¼ |
| | 6 | | 35 | 9 | | | 8 | 15 | 6 | | 4 | 4½ | | 13 | 1½ |
| | | 3 | 39 | 8 | | | 6 | 7 | 6 | | 3 | 2½ | | 9 | 7½ |
| | | | 22 | 5 | 5 | | 4 | 5 | | | 2 | 1½ | | 6 | 4½ |
| | 110 | | 37 | 143 | 10 | | 125 | 10 | | 3 | 2 | 9 | 9 | 8 | 3 |
| | 47 | 1 | | 51 | 10 | | 45 | | | 1 | 2 | 6 | 3 | 7 | 6 |
| | 6 | 3 | | 1 | 2 | 6 | 1 | 2 | 6 | | | 6¾ | | 1 | 8¼ |
| | 653 | – | 17 | 860 | 7 | 6 | 752 | 7 | 6 | 18 | 16 | 2¼ | 56 | 8 | 7½ |
| | | 2 | | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | 39 | 3 | 14 | 49 | 12 | 6 | 45 | 10 | | 1 | 1 | 9 | 3 | 5 | 3 |
| | 14 | 2 | 35 | 35 | 15 | | 31 | 5 | | | 15 | 7½ | 2 | 6 | 10½ |
| | 97 | | 36 | 99 | 15 | | 87 | 5 | | 2 | 3 | 7½ | 6 | 10 | 10½ |
| | 133 | 3 | 4 | 127 | | | 111 | 2 | 6 | 2 | 15 | 6¾ | 8 | 6 | 8¼ |
| | 59 | | 33 | 60 | | | 52 | 10 | | 1 | 6 | 3 | 3 | 18 | 9 |
| | | | | 146 | 10 | | 122 | 5 | | 3 | 1 | 1½ | 9 | 3 | 4½ |
| | 5 | 1 | 22 | 7 | 10 | | 7 | 5 | | | 3 | 7½ | | 10 | 10½ |

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| Number | Name of Occupier | Name of Owner | Description of Property | Name or Situation of Property |
|---|---|---|---|---|
| 39 | Granger Revd | Granger Revd | Hs & Garden | Vicarage |
| 40 | " " | " " | Hs & Land | Shercombe Mike ?.. |
| 41 | " " | Blake G.P. Esq | Land | Pt of Dolish |
| 42 | " " | Bishop John | Hs & Land | Bishops Town |
| 43 | Godfree Henry | Bernard W. Esq | " " | Woodhays |
| 44 | Griffin Thos | Harwoods Trustees | " " | Red Cleave |
| 45 | Griffin Jas | Griffin Jas. | Cottages & Land | Ararat |
| Page 4 | | | | |
| 46 | Griffin Jas. | Walker Esqr | Hs & Land | Hagerlands |
| 47 | Griffin Clement | Griffin Clement | " | Gully Lane |
| 48 | " | Griffin Thos | Land | Ringpath ? |
| 49 | Griffin Henry | Griffin Henry | Hs " Land | Whitehat |
| 50 | Griffin John | Venn Execrs | " " | Matthays |
| 51 | " " | Bernard W Esqr | " " | Gt & Little Ford |
| 52 | ~~Hurford Jas~~ Watts Jame. | Hutchings Jas | " " | Holwood |
| 53 | Watts Jame | Helyar Esqr | " " | Smithenhayes |
| 54 | Hurford John | " | " " | Beacon Hever |
| 55 | Holway Peter | Hurford Jas | Cottages & Shop | Gate Frankland |
| 56 | Helyar Mrs C | " " | " " | Mountstephens House |
| 57 | Helyar Mrs | Gay Thornhill | Hs & Land | |
| 58 | Irish Wm | Helyar Mrs C | Gt Tithe of duffitt | Commuted at 150 |
| 59 | Hurford W | Helyar Mrs | Gt Tithe of Whitehall & Smithenhays | |
| 60 | Hurford Jas | Worth Esqr | Hs & Land | Bishop yard & Cabin |
| Page 5 | Johnston Wm | | | |
| 61 | Hook Mary | Burrough James | House & Land | Gullyhays |
| 62 | Loveridge Isaac | Bernard W Esqr | Cottage & Garden | Moor Pitt Cot |
| 63 | Moore Mark | Blake G.P. Esqr | Hs & Land | Cockhill |
| 64 | Bishop George | Moore Mark | " " | Moores Work |
| 65 | | Bishop Mrs | Cottage & Garden | New Buildings |
| 66 | " " | " " | " " | " " |
| 67 | Potter Simon | Moore Thos | House & Land | Combshead Perm |
| 68 | Pearey John | Walters Esqr | " " | Ramfield |
| 69 | Pearey Margt | Pearey Margt | " " | Barley Cross Tenem |
| 70 | Pulman John | Hallett W & R | Hs & Garden | Gate Hedgeways |
| 71 | Trot Charles | Burrough Wm | Hs & Land | Palmerhays |
| 72 | Quick James | Bernard W Esqr | Land | Daveys |
| 73 | " | " " | Cottage & Garden | Coxes Plot |
| 74 | " | Feoffees of duffitt | Cottage & Land | Whindwhistle |
| 75 | Russell Thos Warren Mrs | Bastards Trustees | Land | Burroughs Ground |

| Estimated Element | | | Real Estimated Value | | | Rateable Value | | | Lodin the £ | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | R | P | £ | s | d | £ | s | d | £ | s | d | | | |
| | 2 | 5 | 13 | 7 | 6 | 10 | 15 | | | 5 | 4½ | | 16 | 1½ |
| 49 | | 34 | 60 | | | 52 | 10 | | 1 | 6 | 3 | 3 | 18 | 9 |
| 39 | 3 | 34 | 50 | 5 | | 48 | 15 | | 1 | 4 | 4½ | 3 | 13 | 1½ |
| 12 | 1 | | 19 | 17 | 6 | 17 | 7 | 6 | | 8 | 8¼ | 1 | 6 | 0¾ |
| 181 | 3 | 2 | 288 | 15 | | 252 | 15 | | 6 | 6 | 4½ | 18 | 19 | 1½ |
| 82 | | 9 | 145 | 12 | 6 | 101 | 2 | 6 | 2 | 10 | 6¾ | 7 | 11 | 8¼ |
| 4 | 3 | 37 | 9 | 7 | 6 | 8 | 5 | | | 4 | 1½ | | 12 | 4½ |
| 721 | 1 | 25 | 1086 | 10 | | 949 | 12 | 6 | 23 | 14 | 6¾ | 71 | 3 | 8¼ |
| 215 | 2 | | 180 | 7 | 6 | 169 | | | 3 | 19 | 0 | 11 | 17 | 0 |
| 79 | 1 | 29 | 99 | 5 | | 86 | 17 | 6 | 2 | 3 | 5¼ | 6 | 10 | 3¾ |
| 16 | 3 | 8 | 24 | 15 | | 24 | 2 | 6 | | 12 | ¾ | 1 | 16 | 2¼ |
| 7 | 3 | 32 | 10 | 10 | | 9 | 5 | | | 4 | 7½ | | 13 | 10½ |
| 44 | 1 | 20 | 44 | 5 | | 38 | 15 | | | 19 | 4½ | 2 | 18 | 1½ |
| 33 | | 6 | 59 | 15 | | 52 | 5 | | 1 | 6 | 1½ | 3 | 18 | 4½ |
| 12 | 3 | 27 | 16 | 7 | 6 | 14 | 7 | 6 | | 7 | 2¼ | 1 | 1 | 6¾ |
| | | | | | | 79 | 17 | 6 | | | | | | |
| Revaluation 135 | 3 | 29 | 200 | | | 175 | | | | | | | | |
| | | | | | | 95 | 12 | 6 | 4 | 7 | 6 | 13 | 2 | 6 |
| | 1 | 13 | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| Town | 3 | 4 | 8 | 10 | | 7 | | | | 3 | 6 | | 10 | 6 |
| 115 | | 35 | 156 | 15 | | 138 | 2 | 6 | 3 | 9 | ¾ | 10 | 7 | 2¼ |
| | | | 157 | | | 152 | | | 3 | 6 | 0 | 9 | 18 | 0 |
| 8 & 10 | | | 8 | 15 | | 7 | 10 | | | 3 | 9 | | 11 | 3 |
| 246 | 2 | 17 | 242 | | | 211 | 15 | | 5 | 5 | 11½ | 15 | 17 | 7½ |
| 905 | 3 | 20 | 1217 | 7 | 6 | 1057 | 10 | | 26 | 8 | 9 | 79 | 6 | 3 |
| 63 | 3 | 9 | 81 | 7 | 6 | 71 | 5 | | 1 | 15 | 7½ | 5 | 6 | 10½ |
| | 2 | 13 | 3 | 12 | 6 | 2 | 17 | 6 | | 1 | 5¼ | | 4 | 3¾ |
| 6 | | 10 | 11 | 17 | 6 | 10 | 7 | 6 | | 5 | 2¼ | | 15 | 6¾ |
| 49 | 2 | 29 | 63 | 5 | | 55 | 5 | | 1 | 7 | 7½ | 4 | 2 | 10½ |
| | | 18 | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | | 17 | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| Garden 102 | 3 | 10 | 131 | 17 | 6 | 115 | 7 | 6 | 2 | 17 | 5¼ | 8 | 13 | 0¾ |
| 50 | 1 | 1 | 70 | 10 | | 60 | 15 | | 1 | 10 | 4½ | 4 | 11 | 1½ |
| Demolition? 22 | 2 | 34 | 34 | 15 | | 30 | 7 | 6 | | 15 | 2¼ | 2 | 5 | 6½ |
| | 1 | 25 | 4 | 2 | 6 | 3 | 5 | | | 1 | 7½ | | 4 | 10½ |
| 21 | 3 | 7 | 29 | 15 | | 26 | | | | 13 | 0 | 1 | 19 | 0 |
| 3 | 2 | 30 | 5 | 7 | 6 | 5 | 5 | | | 2 | 7½ | | 7 | 10½ |
| | 3 | 11 | 4 | 12 | 6 | 3 | 12 | 6 | | 1 | 9¾ | | 5 | 5¼ |
| 2 | 1 | 24 | 5 | 5 | | 4 | 5 | | | 2 | 1½ | | 6 | 4½ |
| 9 | | 21 | 12 | 17 | 6 | 12 | 10 | | | 6 | 3 | | 18 | 9 |
| 334 | 1 | 18 | 465 | 10 | | 406 | 2 | 6 | 10 | 3 | 0¼ | 30 | 9 | 2¾ |

| Number | Name of Occupier | Name of Owner | Description of Property | Name of or Situation of Property |
|---|---|---|---|---|
| Page 6 | | | | |
| 76 | Darke James | Rapsey John | Hs & Land | Shelf |
| 77 | Sparks Henry | Bernard W Esqr | " " Garden | Cate Mockridges |
| 78 | Smith Robert | Simcoe J Esqr | " " Land | Forwards Grt |
| 79 | Blake G P Esqr | Feoffees of Gittisham | " | Bullake |
| 80 | Sage ~~Chas Junr~~ John | Helyar Esqr | Hs Land | Pound Mr Mohunsotter |
| 81 | Summers Saml | Browns Excors | Land | Jackhill |
| 82 | Summers John | Worth Esqr | Hs & Land | Blackenfields |
| 83 | Summers Saml Junr | Moore Wm | Cottage & Land | Cate Braddicks |
| 84 | " " | " " | " | Pt High Park |
| 85 | " " | " " | Land | " |
| 86 | ~~Sage John~~ Griffin Clement | Griffin John | Hs & Land | Calhays |
| 87 | Sage Chas Senr | Abrahams Esqr | Hs & Land | Overday |
| 88 | Sarle Francis | Bernard W Esqr | Hs & Garden | Searle's Cot |
| 89 | Searle Thos | Warren Thos | " " | Antelope |
| 90 | Selway John | Bernard W Esqr | " " | Week |
| Page 7 | | | | |
| 91 | Totterdell Edwin | Bernard W Esqr | Hs & Garden | Mr Stephens Cot |
| 92 | Totterdell John | Totterdell John | " " | Honey wiles |
| 93 | Turpin Philip | Turpin Philip | Garden & Tavern | Red Lion |
| 94 | Wyatt & Son | Bernard W Esqr | Hs & Land | Shaugh |
| 95 | Warren Thos | Helyar Esqr | " " | Spurtham & Summer |
| 96 | Do & Son | Notley Esqr | " " | Notleys Oddle |
| 97 | Warren Mrs | Venn Excors | " " | Barn & Oddle |
| 98 | Wright John | Wright John | Cottage Garden & Orchard | Sparrows Cross |
| 99 | " " | " " | " " " | Cate Mays |
| 100 | " " | " " | Land | Hamsclose |
| 101 | Webber Wm | Helyar Esqr | Hs & Land | Hill end |
| 102 | Ware Mrs | Ware Mrs | Cottage & Garden | Chards Cot |
| 103 | Tozer Wm Senr | Burrough Edwin | Cottage | Pt Stephenswater |
| 104 | Tozer Wm Junr | " " | " | " |
| 105 | Manfield Jas | " " | " | " |
| Page 8 | | | | |
| 106 | James Thomas | Helyar Mrs | Cottage | Whitcombe |
| 107 | Manley Peter | Scott J Esqr | " | Rutkins |
| 108 | Pomroy Robt | Bernard W Esqr | " | Pt Huggin Week |
| 109 | Lorman Sarah | | " | Weeks |
| 110 | Lock John | Simcoe J Esqr | " | Lamberts |
| 111 | Manley Henry | | " | |
| 112 | Prince John | Worth Esqr | " | Pulshays |
| 113 | Rattenbury Jas | " " | " | " |

| Estimated Exctent A | R | P | Gross Estimated rental £ | s | d | Rateable Value £ | s | d | 6d in the £ £ | s | d | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 2 | 22 | 26 | 15 | . | 23 | 7 | 6 | | 11 | 8¾ | 1 | 15 | 0 ¾ |
| 1 | | 5 | 3 | 12 | 6 | 2 | 17 | 6 | | 1 | 5¼ | | 4 | 3 ¾ |
| 5 | 3 | 23 | 5 | . | | 4 | 17 | 6 | | 2 | 5¼ | | 7 | 3 ¾ |
| 22 | 2 | 22 | 19 | 17 | 6 | 19 | 7 | 6 | | 9 | 8¼ | 1 | 9 | 0 ¾ |
| 157 | | 18 | 149 | 10 | | 130 | 15 | | 3 | 5 | 4½ | 9 | 16 | 1½ |
| 4 | | 24 | 6 | . | | 5 | 17 | 6 | | 2 | 11¼ | | 8 | 9 ¾ |
| 52 | 3 | 2 | 70 | 10 | | 61 | 15 | | 1 | 10 | 10½ | 4 | 12 | 7 ½ ¾ |
| 3 | | 37 | 15 | 7 | 6 | 12 | 7 | 6 | | 6 | 2¼ | | 18 | 6 ¾ |
| | | 37 | 4 | 15 | | 3 | 15 | | | 1 | 10½ | | 5 | 7 ½ |
| 1 | 1 | 27 | 2 | 7 | 6 | 2 | 7 | 6 | | 1 | 2¼ | | 3 | 6 ¾ |
| 61 | | 34 | 78 | 17 | 6 | 69 | . | | 1 | 14 | 6 | 5 | 3 | 6 |
| 85 | 1 | 29 | 111 | 2 | 6 | 97 | 5 | | 2 | 8 | 7½ | 7 | 5 | 10 ½ |
| | 2 | 31 | 4 | 12 | 6 | 5 | 12 | 6 | | 1 | 9¾ | | 5 | 5 ¼ |
| | 2 | 38 | 7 | . | | 5 | 12 | 6 | | 2 | 9¾ | | 8 | 5 ¼ |
| | | 17 | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| 410 | 1 | 6 | 508 | 10 | - | 445 | 7 | 6 | 11 | 2 | 8¼ | 33 | 8 | 0 ¾ |
| | 1 | 13 | 3 | 10 | | 2 | 15 | | | 1 | 4½ | | 4 | 1 ½ |
| 1 | | 10 | 4 | 15 | | 3 | 15 | | | 1 | 10½ | | 5 | 7 ½ |
| | 2 | 10 | 9 | | | 7 | 5 | | | 3 | 7½ | | 10 | 10 ½ |
| 135 | | 18 | 204 | | | 178 | 10 | | 4 | 9 | 3 | 13 | 7 | 9 |
| 215 | 2 | 35 | 302 | | | 264 | 5 | | 6 | 12 | 1½ | 19 | 16 | 4 ½ |
| 76 | | 15 | 84 | 7 | 6 | 73 | 17 | 6 | 1 | 16 | 11¼ | 5 | 10 | 9 ¾ |
| 32 | 2 | 37 | 46 | 10 | | 40 | 15 | | 1 | 0 | 4½ | 3 | 1 | 1 ½ |
| | 2 | 20 | 9 | 17 | 6 | 7 | 17 | 6 | | 3 | 11¼ | | 11 | 9 ¾ |
| | 2 | 10 | 5 | 15 | | 4 | 12 | 6 | | 2 | 3¾ | | 6 | 11 ¼ |
| 3 | 1 | 32 | 5 | 15 | | 4 | 12 | 6 | | 2 | 3¾ | | 6 | 11 ¼ |
| 156 | 2 | 5 | 104 | 5 | | 91 | 5 | | 2 | 5 | 7½ | 6 | 16 | 10 ½ |
| | 1 | 21 | 6 | 10 | . | 5 | 5 | | | 2 | 7½ | | 7 | 10 ½ |
| | | 7 | 3 | 10 | | 2 | 15 | | | 1 | 4½ | | 4 | 1 ½ |
| | | 6 | 3 | 10 | | 2 | 15 | | | 1 | 4½ | | 4 | 1 ½ |
| | | 6 | 3 | 10 | | 2 | 15 | | | 1 | 4½ | | 4 | 1 ½ |
| 623 | 1 | 5 | 796 | 15 | . | 693 | 0 | 0 | 17 | 6 | 6 | 51 | 19 | 6 |
| | | | 2 | 10 | . | 2 | | | | 1 | | | | |
| | | | 3 | 2 | 6 | 2 | 10 | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 3 | | 3 | 9 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |

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| Number | Name of Occupier | Name of Owner | Description of Property | Name of Situation of Property |
|---|---|---|---|---|
| 114 | Clarke John | Bernard W Esqr | Ex Cottage | Woodleys Cottage |
| 115 | Pomroy Wm | " | " | Do |
| 116 | Helyar Esqr | Helyar Mrs | " | Halsen |
| 117 | Stone Wm | Gay Thornhill | " & Garden | Town |
| 118 | Atkins John | " " | " " | " |
| 119 | Tozer James | " " | " " | " |
| 120 | Pomroy James | Worth Esq | Cottage | Yard |

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| | | | | |
|---|---|---|---|---|
| 121 | Stamp Mary | Worth & McKenzie Esq | Cottage | Bishops |
| 122 | Clark John | Moore Thos | " | Penn |
| 123 | Rowland John | " " | " | do |
| 124 | Gorman Francis | Worth Esqr | " | Shelf |
| 125 | Stone | " | " | do |
| 126 | Lake Wm | Bernard W Esqr | " | Shaugh |
| 127 | Payne John | Helyar Esqr | " | Whiphins |
| 129 | Horton Wm | Venns Exors | " | Cobble |
| 129 | | " | " | do |
| 130 | Bishop Wm | Blake G P Esqr | " | Lake |
| 131 | Manuell John | " | " | do |
| 132 | Drake John | " | " | Haywards |
| 133 | Bailey | " | " | do |
| 134 | Broom Wm | " | Cottage & Land | Meshays & Welsh |
| | | | Cottage | & Haywards |

Page Totals

1
2
3
4
5
6
7
8
9

Opposite →

| Estimated Extent A | R | P | Gross Estimated Rental £ | s | d | Rateable Value £ | s | d | 6d in the £ £ | s | d | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2 | 10 | 2 | 0 | 0 | | 1 | 0 | | 3 | 0 |
| | | | | 2 | 10 | 2 | 0 | 0 | | 1 | 0 | | 3 | 0 |
| | | | | 2 | 10 | 2 | 0 | 0 | | 1 | 0 | | 3 | 0 |
| | | 20 | | 3 | 10 | 2 | 15 | ~~0~~ | | 1 | 4½ | | 4 | 1½ |
| | | 20 | | 3 | 10 | 2 | 15 | ~~0~~ | | 1 | 4½ | | 4 | 1½ |
| | | 20 | | 3 | 10 | 2 | 15 | ~~0~~ | | 1 | 4½ | | 4 | 1½ |
| | | | | 2 | 10 | 2 | 0 | ~~0~~ | | 1 | 0 | | 3 | 0 |
| | 1 | 20 | 41 | 2 | 6 | 32 | 15 | | | 16 | 4½ | 2 | 9 | 1½ |
| | | | 3.2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | | | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | | | 2 | | | 1 | 12 | 6 | | | 9¾ | | 2 | 5¼ |
| | | | 2 | | | 1 | 12 | 6 | | | 9¾ | | 2 | 5¼ |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| | | | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| | | | 3 | 2 | 6 | 2 | 10 | | | 1 | 3 | | 3 | 9 |
| 2 | 2 | . | 11 | 17 | 6 | 9 | 10 | | | 4 | 9 | | 14 | 3 |
| | | | 2 | 10 | | 2 | | | | 1 | 0 | | 3 | 0 |
| 2 | 2 | . | 48 | 7 | 6 | 38 | 15 | | | 19 | 4½ | 2 | 18 | 1½ |

127 1 9½

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 1 | 14 | 809 | 2 | 6 | 708 | 12 | 6 | | | | | | |
| 653 | . | 17 | 860 | 7 | 6 | 752 | 7 | 6 | | | | | | |
| 721 | 1 | 25 | 1086 | 10 | | 949 | 2 | 6 | | | | | | |
| 908 | 3 | 20 | 1211 | 7 | 6 | 1057 | 10 | . | Approved 23 March 1871 | | | | | |
| 334 | 1 | 18 | 465 | 10 | . | 406 | 2 | 6 | | | | | | |
| 410 | 1 | 6 | 508 | 10 | . | 445 | 7 | 6 | Charles Gordon | | | Members | | |
| 623 | 1 | 5 | 796 | 15 | . | 693 | . | . | H Davis | | | of the | | |
| | 1 | 20 | 41 | 2 | 6 | 32 | 15 | . | Thos Griffin | | | Assessment | | |
| 2 | 2 | . | 48 | 7 | 6 | 38 | 15 | . | Jas Farmer | | | Committee | | |
| 4327 | 2 | 5 | 5527 | 18 | . | 5083 | | | | | | | | |

HV Clerk

April 1924

From "The Wyvern" of Queen's College, Taunton.
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# Magic Squares

By H. Spencer Toy.
B.Sc., A.Inst.P., F.R.A.S.

A magic square is one that is divided, like a chess board, into smaller squares, called "cells", which contain numbers arranged in such a way that those in every column, every row, and both diagonals give the same total when added.

These numbers begin with 1 and follow each other consecutively, so that no number is used twice and no number is omitted.

One of the simplest of these squares is shown in FIG 1, and will illustrate the principle. If any column, row, or diagonal be added the result will be 15.

| | | |
|---|---|---|
| 4 | 9 | 2 |
| 3 | 5 | 7 |
| 8 | 1 | 6 |

FIG 1

For many years the construction of these diagrams was achieved merely by arduous trial, but, however it is performed by rules that are simple, though not generally known. Of the various methods used the simplest is one of those employed in the case of squares containing an odd number of cells.

In order to be definite, let us suppose that we have a square that is divided into 25 smaller ones. The middle column and the middle row are each produced to form two additional cells at both ends. The columns and rows next to them are produced to form one additional cell at each end, so that we now have a kind of larger square placed diagonally around the original one.

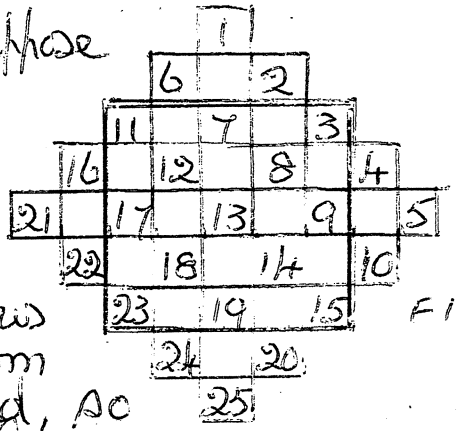


FIG 2

In this new square the natural series of numbers is written as shown in FIG 2. Some of them are also inside the original square, as for example 11, 9, 13. The others are now placed inside in such a way that every number so moved remains in the same column or row, as the case may be, and

is as far from the side opposite it as it row is from the side nearest it. Thus 1 is two cells above the 4th horizontal line; it is therefore placed two cells above the bottom horizontal line. The result of this insertion of the outside numbers is shown in FIG 3.

| | | | | |
|---|---|---|---|---|
| 11 | 24 | 7 | 20 | 3 |
| 4 | 12 | 25 | 8 | 16 |
| 17 | 5 | 13 | 21 | 9 |
| 10 | 18 | 1 | 14 | 22 |
| 23 | 6 | 19 | 2 | 15 |

FIG 3.

In this square the sum of each column, row, and diagonal is 65. This can be easily verified by adding, for instance, 4, 12, 25, 8 and 16.

The problem becomes much more difficult if the magic square contains an even number of cells, say 16. In such a case a different method is adopted.

The numbers 1 to 4 are arranged as shown in FIG 4, and 0 to 3 as in FIG 5. Those of the second set are multiplied by 4 and added to the corresponding ones of the first.

| | | | |
|---|---|---|---|
| 1 | 3 | 2 | 4 |
| 4 | 2 | 3 | 1 |
| 4 | 2 | 3 | 1 |
| 1 | 3 | 2 | 4 |

FIG 4

| | | | |
|---|---|---|---|
| 0 | 3 | 3 | 0 |
| 2 | 1 | 1 | 2 |
| 1 | 2 | 2 | 1 |
| 3 | 0 | 0 | 3 |

FIG 5

The result is shown in FIG 6, in which the sum of each column, row and diagonal is 34

| | | | |
|---|---|---|---|
| 1 | 15 | 14 | 4 |
| 12 | 6 | 7 | 9 |
| 8 | 10 | 11 | 5 |
| 13 | 3 | 2 | 16 |

FIG 6.

There have also been constructed squares that are far more complicated than those already considered. That shown in FIG 7 is an example. In this case every column and every row again have a sum of 34. But this square gives 34 in several other ways also. Take four cells in the form of an arrowhead, pointing either to the right or the left, and add them. Thus, $16+10+7+1=34$, or $4+10+7+13=34$. The resources of this square are not yet exhausted, for if any four small squares be taken in the form of a larger one, the sum of the numbers they contain will again be 34. Thus $11+14+3+6=34$. This can best be illustrated by taking a piece of paper and cutting in it a hole the size of four cells. If this then be placed so that its edges coincide with any of the lines in the diagram, the sum of the four numbers that are visible is 34.

| | | | |
|---|---|---|---|
| 9 | 16 | 5 | 4 |
| 6 | 3 | 10 | 15 |
| 11 | 14 | 7 | 2 |
| 8 | 1 | 12 | 13 |

FIG 7

FIG 8 shows a magic square possessing another curious property. The columns, rows, and diagonals make 65 as usual, but if the outer ring of cells be completely removed the remaining square is also magic.

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 19 | 20 | 23 |
| 18 | 16 | 9 | 14 | 8 |
| 21 | 11 | 13 | 15 | 5 |
| 22 | 12 | 17 | 10 | 4 |
| 3 | 24 | 7 | 6 | 25 |

FIG 8

FIG 9 gives yet another type of magic square. Each column, row, and diagonal totals 260, but in addition to this, if every number be replaced by its square, i.e. 5 by 25, 31 by 961, etc., then the new square so constructed is also magic, the corresponding totals being 11150.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 31 | 35 | 60 | 57 | 34 | 8 | 30 |
| 19 | 9 | 53 | 46 | 47 | 56 | 18 | 12 |
| 16 | 22 | 42 | 39 | 52 | 61 | 27 | 1 |
| 63 | 37 | 25 | 24 | 3 | 14 | 44 | 50 |
| 26 | 4 | 64 | 49 | 38 | 43 | 13 | 23 |
| 41 | 51 | 15 | 2 | 21 | 28 | 62 | 40 |
| 54 | 48 | 20 | 11 | 10 | 17 | 55 | 45 |
| 36 | 58 | 6 | 29 | 32 | 7 | 33 | 59 |

FIG 9

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 | 217 | 232 | 249 | 8 | 25 | 40 | 57 | 72 | 89 | 104 | 121 | 136 | 153 | 168 | 185 |
| 58 | 39 | 26 | 7 | 250 | 231 | 218 | 199 | 186 | 167 | 154 | 135 | 122 | 103 | 90 | 71 |
| 198 | 219 | 230 | 251 | 6 | 27 | 38 | 59 | 70 | 91 | 102 | 123 | 134 | 155 | 166 | 187 |
| 60 | 37 | 28 | 5 | 252 | 229 | 220 | 197 | 188 | 165 | 156 | 133 | 124 | 101 | 92 | 69 |
| 201 | 216 | 233 | 248 | 9 | 24 | 41 | 56 | 73 | 88 | 105 | 120 | 137 | 152 | 169 | 184 |
| 55 | 42 | 23 | 10 | 247 | 234 | 215 | 202 | 183 | 170 | 151 | 138 | 119 | 106 | 87 | 74 |
| 203 | 214 | 235 | 246 | 11 | 22 | 43 | 54 | 75 | 86 | 107 | 118 | 139 | 150 | 171 | 182 |
| 53 | 44 | 21 | 12 | 245 | 236 | 213 | 204 | 181 | 172 | 149 | 140 | 117 | 108 | 85 | 76 |
| 205 | 212 | 237 | 244 | 13 | 20 | 45 | 52 | 77 | 84 | 109 | 116 | 141 | 148 | 173 | 180 |
| 51 | 46 | 19 | 14 | 243 | 238 | 211 | 206 | 179 | 174 | 147 | 142 | 115 | 110 | 83 | 78 |
| 207 | 210 | 239 | 242 | 15 | 18 | 47 | 50 | 79 | 82 | 111 | 114 | 143 | 146 | 175 | 178 |
| 49 | 48 | 17 | 16 | 241 | 240 | 209 | 208 | 177 | 176 | 145 | 144 | 113 | 112 | 81 | 80 |
| 196 | 221 | 228 | 253 | 4 | 29 | 36 | 61 | 68 | 93 | 100 | 125 | 132 | 157 | 164 | 189 |
| 62 | 35 | 30 | 3 | 254 | 227 | 222 | 195 | 190 | 163 | 158 | 131 | 126 | 99 | 94 | 67 |
| 194 | 223 | 236 | 255 | 2 | 31 | 34 | 63 | 66 | 95 | 98 | 127 | 130 | 159 | 162 | 191 |
| 64 | 33 | 32 | 1 | 256 | 225 | 224 | 193 | 192 | 161 | 160 | 129 | 128 | 97 | 96 | 65 |

FIG 10