

**MAΘ - 1998****All School Test  
Answers**

- |            |  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
|------------|--|--------|---|---------|-----------|---------|-----------|----------|-------------|----------|-------------|------------|--------|-----|---------|
| 1.         | (795.8, 20)  | 17.    | (131, $11\pi r^2 l$ )   |         |           |         |           |          |             |          |             |            |        |     |         |
| 2.         | 23   | 18.    | 50  |         |           |         |           |          |             |          |             |            |        |     |         |
| 3.         | 3121   | 19.    | 68  |         |           |         |           |          |             |          |             |            |        |     |         |
| 4.         | 47 / 2509584   | 20.    | 1, 2, 3, 4, 5   |         |           |         |           |          |             |          |             |            |        |     |         |
| 5.         | (9, 7) and (13, 2)   | 21.    | (14, 31)  |         |           |         |           |          |             |          |             |            |        |     |         |
| 6.         | 195  | 22.    | $\frac{(x-3)^2}{144} + \frac{(y-2)}{169} = 1$   |         |           |         |           |          |             |          |             |            |        |     |         |
| 7.         | Melody, Kay, Chris, Rebecca, Angela  | 23.    | 500,500   |         |           |         |           |          |             |          |             |            |        |     |         |
| 8.         | <table border="0" style="margin-left: 40px;"> <tr> <td>0 7 3</td> <td>Or</td> <td>0 3 7</td> </tr> <tr> <td>4 1 6</td> <td></td> <td>4 1 6</td> </tr> <tr> <td>2 5 11</td> <td></td> <td>2 5 11</td> </tr> <tr> <td>10 9 8</td> <td></td> <td>10 9 8</td> </tr> </table> | 0 7 3  | Or  | 0 3 7   | 4 1 6     |         | 4 1 6     | 2 5 11   |             | 2 5 11   | 10 9 8      |            | 10 9 8 | 24. | 165 / 8 |
| 0 7 3      | Or   | 0 3 7  |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 4 1 6      |  | 4 1 6  |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 2 5 11     |  | 2 5 11 |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 10 9 8     |  | 10 9 8 |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 9.         | White  | 25.    | <table border="0" style="margin-left: 40px;"> <tr> <td>P-Jones</td> <td>SS-Miller</td> </tr> <tr> <td>C-Smith</td> <td>LF- Green</td> </tr> <tr> <td>1B-Brown</td> <td>CF - Hunter</td> </tr> <tr> <td>2B-White</td> <td>RF - Knight</td> </tr> <tr> <td>3B - Adams</td> <td></td> </tr> </table> | P-Jones | SS-Miller | C-Smith | LF- Green | 1B-Brown | CF - Hunter | 2B-White | RF - Knight | 3B - Adams |        |     |         |
| P-Jones    | SS-Miller  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| C-Smith    | LF- Green  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 1B-Brown   | CF - Hunter  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 2B-White   | RF - Knight  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 3B - Adams |  |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 10.        | 16   | 26.    | C (the same amount)   |         |           |         |           |          |             |          |             |            |        |     |         |
| 11.        | 8  | 27.    | $13x + 8y = 49$   |         |           |         |           |          |             |          |             |            |        |     |         |
| 12.        | 10 / 7   | 28.    | 5.25 or $5 \frac{1}{4}$ or $\frac{25}{4}$   |         |           |         |           |          |             |          |             |            |        |     |         |
| 13.        | 132, 72, 52, 42, 36 (any order, all are needed)  | 29.    | 33333331  |         |           |         |           |          |             |          |             |            |        |     |         |
| 14.        | 2, 5, 8, 11, 14, 17, 20, 23, 26 ( all are needed in this order)  | 30.    | 40  |         |           |         |           |          |             |          |             |            |        |     |         |
| 15.        | $1632\sqrt{2}$   |        |   |         |           |         |           |          |             |          |             |            |        |     |         |
| 16.        | $\frac{\sqrt{6}}{4}$   |        |   |         |           |         |           |          |             |          |             |            |        |     |         |