

**THE SCIENCE AND ART OF
ARITHMETIC; FOR
THE USE OF SCHOOLS.
EXERCISE BOOK. PART 1**

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The science and art of arithmetic; for the use of schools. Exercise book. Part 1 by A. Sonnenschein & H. A. Nesbitt

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A. SONNENSCHNEIN & H. A. NESBITT

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OF
ARITHMETIC;
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EXERCISE BOOK. PART I.

BY
A. SONNENSCHN
AND
H. A. NESBITT, M.A., UNIV. COLL., LONDON.

"The mills of God grind slowly, but they grind exceeding small."



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1877.

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EXERCISE BOOK. PART I.

EXERCISE I.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>(1)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>£.</td><td>s.</td><td>d.</td></tr> <tr><td>5</td><td>4</td><td>2</td></tr> <tr><td>1</td><td>7</td><td>8</td></tr> </table> | £. | s. | d. | 5 | 4 | 2 | 1 | 7 | 8 | <p>(2)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>£.</td><td>s.</td><td>d.</td></tr> <tr><td>5</td><td>3</td><td>4</td></tr> <tr><td>8</td><td>2</td><td>6</td></tr> </table> | £. | s. | d. | 5 | 3 | 4 | 8 | 2 | 6 | <p>(3)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>£.</td><td>s.</td><td>d.</td></tr> <tr><td>7</td><td>6</td><td>10</td></tr> <tr><td>8</td><td>4</td><td>6</td></tr> </table> | £. | s. | d. | 7 | 6 | 10 | 8 | 4 | 6 | <p>(4)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>£.</td><td>s.</td><td>d.</td></tr> <tr><td>7</td><td>8</td><td>11½</td></tr> <tr><td>5</td><td>6</td><td>7½</td></tr> </table> | £. | s. | d. | 7 | 8 | 11½ | 5 | 6 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | |
| £. | s. | d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| £. | s. | d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| £. | s. | d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | 11½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 6 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(5)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>9</td><td>8</td><td>4</td></tr> <tr><td>2</td><td>7</td><td>3</td></tr> <tr><td>6</td><td>5</td><td>7</td></tr> </table> | 9 | 8 | 4 | 2 | 7 | 3 | 6 | 5 | 7 | <p>(6)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>5</td><td>4</td><td>6½</td></tr> <tr><td>3</td><td>8</td><td>9½</td></tr> <tr><td>1</td><td>2</td><td>7½</td></tr> </table> | 5 | 4 | 6½ | 3 | 8 | 9½ | 1 | 2 | 7½ | <p>(7)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>2</td><td>3½</td></tr> <tr><td>8</td><td>4</td><td>2½</td></tr> <tr><td>5</td><td>7</td><td>6½</td></tr> </table> | 7 | 2 | 3½ | 8 | 4 | 2½ | 5 | 7 | 6½ | <p>(8)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td></td><td>4</td><td>5</td></tr> </table> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 4 | 5 | | | | | | | | | | | | | | | | | | | | | |
| 9 | 8 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4 | 6½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 8 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 3½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4 | 2½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | 6½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(9)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>3</td><td>5½</td></tr> <tr><td>5</td><td>8</td><td>9½</td></tr> <tr><td>7</td><td>5</td><td>3¼</td></tr> <tr><td>9</td><td>2</td><td>7</td></tr> </table> | 1 | 3 | 5½ | 5 | 8 | 9½ | 7 | 5 | 3¼ | 9 | 2 | 7 | <p>(10)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>7</td><td>7½</td></tr> <tr><td>8</td><td>9</td><td>10½</td></tr> <tr><td></td><td>4</td><td>5¼</td></tr> <tr><td>8</td><td>2</td><td>7</td></tr> </table> | 7 | 7 | 7½ | 8 | 9 | 10½ | | 4 | 5¼ | 8 | 2 | 7 | <p>(11)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>7</td><td>4</td></tr> <tr><td>6</td><td>4</td><td>8¼</td></tr> <tr><td>4</td><td>9</td><td>2½</td></tr> <tr><td>2</td><td>6</td><td>0½</td></tr> </table> | 3 | 7 | 4 | 6 | 4 | 8¼ | 4 | 9 | 2½ | 2 | 6 | 0½ | <p>(12)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>6</td><td>5</td></tr> <tr><td>4</td><td>3</td><td>2½</td></tr> <tr><td>8</td><td>5</td><td>2</td></tr> <tr><td>9</td><td>6</td><td>9½</td></tr> <tr><td>2</td><td>3</td><td>8</td></tr> </table> | 7 | 6 | 5 | 4 | 3 | 2½ | 8 | 5 | 2 | 9 | 6 | 9½ | 2 | 3 | 8 | | | | | | | | | |
| 1 | 3 | 5½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 8 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 5 | 3¼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 7 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 9 | 10½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 5¼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 7 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4 | 8¼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 9 | 2½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 6 | 0½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 | 2½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 6 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(13)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>8</td><td>7</td><td>9¾</td></tr> <tr><td>8</td><td>7</td><td>9½</td></tr> <tr><td>8</td><td>7</td><td>9½</td></tr> <tr><td>8</td><td>7</td><td>9½</td></tr> <tr><td>8</td><td>7</td><td>9½</td></tr> </table> | 8 | 7 | 9¾ | 8 | 7 | 9½ | 8 | 7 | 9½ | 8 | 7 | 9½ | 8 | 7 | 9½ | <p>(14)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>2</td><td>4½</td></tr> <tr><td>4</td><td>8</td><td>3</td></tr> <tr><td>1</td><td>5</td><td>7¾</td></tr> <tr><td>5</td><td>7</td><td>7½</td></tr> <tr><td>9</td><td>1</td><td>7½</td></tr> </table> | 1 | 2 | 4½ | 4 | 8 | 3 | 1 | 5 | 7¾ | 5 | 7 | 7½ | 9 | 1 | 7½ | <p>(15)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>6</td><td>2</td><td>4½</td></tr> <tr><td>6</td><td>5</td><td>9¼</td></tr> <tr><td>3</td><td>2</td><td>10½</td></tr> <tr><td>7</td><td>0</td><td>0¾</td></tr> <tr><td>8</td><td>8</td><td>8</td></tr> </table> | 6 | 2 | 4½ | 6 | 5 | 9¼ | 3 | 2 | 10½ | 7 | 0 | 0¾ | 8 | 8 | 8 | <p>(16)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>2</td><td>6</td><td>9¾</td></tr> <tr><td>3</td><td>7</td><td>11½</td></tr> <tr><td>4</td><td>8</td><td>10</td></tr> <tr><td>5</td><td>9</td><td>9¼</td></tr> <tr><td>6</td><td>5</td><td>8</td></tr> </table> | 2 | 6 | 9¾ | 3 | 7 | 11½ | 4 | 8 | 10 | 5 | 9 | 9¼ | 6 | 5 | 8 |
| 8 | 7 | 9¾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 9½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 4½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 8 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5 | 7¾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 1 | 7½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 4½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5 | 9¼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 10½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 | 0¾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 6 | 9¾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 7 | 11½ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 9 | 9¼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(17)

| £. | s. | d. |
|----|----|----|
| 3 | 6 | 4 |
| 3 | 8 | 8 |
| 6 | 6 | 7 |
| 2 | 6 | 6 |
| 9 | 4 | 1 |
| 7 | 9 | 9 |

(18)

| £. | s. | d. |
|----|----|-----------------|
| 8 | 4 | 5 |
| 6 | 3 | 9 |
| 9 | 4 | $10\frac{1}{4}$ |
| 7 | 6 | $7\frac{1}{2}$ |
| 5 | 5 | 5 |
| 3 | 7 | 8 |

(19)

| £. | s. | d. |
|----|----|----------------|
| 1 | 2 | $3\frac{1}{2}$ |
| 4 | 5 | $6\frac{1}{2}$ |
| 7 | 8 | 9 |
| 9 | 6 | $3\frac{3}{4}$ |
| 6 | 8 | 5 |
| 7 | 4 | $1\frac{1}{2}$ |

(20)

| £. | s. | d. |
|----|----|----------------|
| 1 | 4 | $6\frac{3}{4}$ |
| 9 | 6 | $7\frac{1}{2}$ |
| 2 | 6 | $8\frac{1}{4}$ |
| 6 | 8 | $4\frac{1}{2}$ |
| 3 | 6 | $9\frac{1}{4}$ |
| 2 | 7 | 0 |

(21)

| | | |
|---|---|-----------------|
| 4 | 7 | $7\frac{1}{2}$ |
| 4 | 8 | $11\frac{1}{2}$ |
| 2 | 5 | $11\frac{1}{2}$ |
| 7 | 8 | $9\frac{1}{4}$ |
| 6 | 6 | $6\frac{1}{4}$ |
| 7 | 9 | $5\frac{3}{4}$ |

(22)

| | | |
|---|---|-----------------|
| 7 | 6 | $4\frac{3}{4}$ |
| 8 | 6 | $3\frac{1}{2}$ |
| 5 | 9 | $4\frac{1}{4}$ |
| 4 | 7 | $11\frac{1}{2}$ |
| 5 | 8 | $9\frac{1}{4}$ |
| 2 | 2 | $1\frac{1}{2}$ |

(23)

| | | |
|---|---|----|
| 2 | 7 | 8 |
| 5 | 9 | 3 |
| 4 | 2 | 11 |
| 7 | 8 | 4 |
| 6 | 2 | 1 |
| 1 | 0 | 6 |
| 3 | 9 | 10 |

(24)

| | | |
|---|---|-----------------|
| 3 | 1 | $6\frac{1}{4}$ |
| 7 | 4 | $5\frac{3}{4}$ |
| 2 | 7 | $9\frac{3}{4}$ |
| 2 | 8 | $10\frac{1}{4}$ |
| 9 | 0 | $8\frac{1}{4}$ |
| 3 | 4 | $11\frac{3}{4}$ |
| 1 | 6 | $2\frac{3}{4}$ |

(25)

| | | |
|---|---|----------------|
| 1 | 3 | $9\frac{1}{2}$ |
| 2 | 7 | $2\frac{3}{4}$ |
| 3 | 6 | 4 |
| | 8 | $7\frac{1}{2}$ |
| 4 | 9 | $1\frac{3}{4}$ |
| 6 | 9 | $5\frac{1}{2}$ |
| 8 | 8 | 8 |

(26)

| | | |
|---|---|----|
| 8 | 9 | 4 |
| 2 | 5 | 7 |
| 8 | 6 | 3 |
| 6 | 9 | 5 |
| 1 | 4 | 9 |
| 3 | 8 | 10 |
| 6 | 4 | 11 |

(27)

| | | |
|---|---|----------------|
| 9 | 8 | $7\frac{1}{2}$ |
| 6 | 5 | $4\frac{1}{4}$ |
| 3 | 2 | $1\frac{1}{2}$ |
| 1 | 4 | $2\frac{1}{4}$ |
| 7 | 5 | $8\frac{3}{4}$ |
| 3 | 8 | $4\frac{1}{2}$ |
| 6 | 1 | $5\frac{3}{4}$ |

(28)

| | | |
|---|---|-----------------|
| 6 | 7 | $9\frac{1}{4}$ |
| 1 | 8 | $10\frac{1}{4}$ |
| 2 | 9 | $11\frac{1}{2}$ |
| 3 | 5 | $4\frac{3}{4}$ |
| 9 | 7 | $6\frac{3}{4}$ |
| 7 | 5 | $9\frac{1}{4}$ |
| 8 | 7 | $2\frac{1}{2}$ |

(29)

| | | |
|---|---|-----------------|
| 6 | 9 | $11\frac{1}{4}$ |
| 4 | 9 | $4\frac{1}{2}$ |
| 2 | 6 | $6\frac{3}{4}$ |
| 3 | 9 | $9\frac{3}{4}$ |
| 8 | 7 | $2\frac{1}{2}$ |
| 8 | 9 | $7\frac{1}{2}$ |
| 6 | 7 | $5\frac{1}{2}$ |

(30)

| | | |
|---|---|----|
| 8 | 1 | 2 |
| 7 | 3 | 4 |
| 6 | 5 | 9 |
| 6 | 5 | 4 |
| 3 | 2 | 1 |
| 3 | 7 | 8 |
| 2 | 1 | 11 |
| 1 | 4 | 10 |

(31)

| | | |
|---|---|----------------|
| 5 | 7 | 8 |
| 3 | 8 | $7\frac{1}{2}$ |
| 7 | 7 | 9 |
| 2 | 8 | 9 |
| 9 | 8 | 9 |
| 4 | 7 | $5\frac{1}{4}$ |
| 5 | 9 | 4 |
| 8 | 8 | 3 |

(32)

| | | |
|---|---|-----------------|
| 8 | 7 | $10\frac{1}{2}$ |
| 5 | 4 | 4 |
| 6 | 2 | $2\frac{1}{4}$ |
| 7 | 9 | 9 |
| 7 | 7 | $10\frac{3}{4}$ |
| 6 | 7 | 4 |
| 8 | 6 | $5\frac{1}{2}$ |
| 4 | 3 | $2\frac{1}{2}$ |

| | | | | | | | | | | | |
|------|----|------------------|------|-----------------|------------------|------|------------------|------------------|------|-----------------|-----------------|
| (33) | | | (34) | | | (35) | | | (36) | | |
| £. | s. | d. | £. | s. | d. | £. | s. | d. | £. | s. | d. |
| 1 | 9 | 7 $\frac{1}{2}$ | 7 | 8 | 7 $\frac{1}{2}$ | 1 | 9 | 10 $\frac{1}{4}$ | 6 | 8 | 4 |
| 2 | 0 | 8 $\frac{1}{2}$ | 7 | 9 | 9 | 4 | 8 | 9 $\frac{1}{2}$ | 6 | 9 | 5 |
| 3 | 1 | 9 $\frac{3}{4}$ | 6 | 0 | 4 | 2 | 7 | 11 $\frac{1}{4}$ | 7 | 3 | 10 |
| 4 | 2 | 10 $\frac{1}{2}$ | 5 | 0 | 3 | 3 | 8 | 2 $\frac{1}{2}$ | 4 | 3 | 11 |
| 5 | 3 | 11 $\frac{1}{2}$ | 9 | 9 | 8 | 6 | 9 | 8 $\frac{3}{4}$ | 7 | 7 | 7 |
| 6 | 4 | 1 $\frac{3}{4}$ | 7 | 6 | 3 | 8 | 7 | 6 $\frac{3}{4}$ | 6 | 8 | 4 |
| 7 | 5 | 2 $\frac{1}{4}$ | 2 | 2 | 0 $\frac{1}{4}$ | 4 | 6 | 7 $\frac{1}{4}$ | 3 | 2 | 7 |
| 8 | 6 | 3 $\frac{1}{2}$ | 5 | 5 | 7 $\frac{1}{2}$ | 7 | 5 | 3 | 1 | 1 | 1 $\frac{1}{4}$ |
| (37) | | | (38) | | | (39) | | | (40) | | |
| 5 | 5 | 3 | 4 | 7 | 3 $\frac{1}{2}$ | 1 | 2 | 3 $\frac{1}{2}$ | 1 | 0 | 2 |
| 7 | 6 | 8 $\frac{1}{4}$ | 6 | 5 | 9 $\frac{1}{4}$ | 4 | 5 | 6 $\frac{1}{2}$ | 2 | 2 | 5 |
| 4 | 9 | 7 | 8 | 8 | 10 $\frac{3}{4}$ | 7 | 8 | 9 $\frac{1}{2}$ | 3 | 4 | 8 $\frac{1}{2}$ |
| 9 | 9 | 4 $\frac{1}{4}$ | 2 | 2 | 4 | 1 | 0 | 11 $\frac{1}{2}$ | 4 | 6 | 11 |
| 2 | 3 | 5 | 1 | 6 | 11 | 1 | 2 | 1 $\frac{3}{4}$ | 5 | 8 | 4 |
| 6 | 0 | 7 $\frac{1}{4}$ | 3 | 5 | 5 $\frac{3}{4}$ | 4 | 5 | 6 $\frac{1}{4}$ | 6 | 0 | 7 |
| 7 | 7 | 7 | 5 | 9 | 1 $\frac{1}{2}$ | 5 | 6 | 7 $\frac{1}{2}$ | 7 | 2 | 0 $\frac{1}{4}$ |
| 8 | 7 | 7 $\frac{1}{2}$ | 7 | 8 | 2 $\frac{1}{2}$ | 3 | 6 | 9 $\frac{3}{4}$ | 8 | 4 | 3 |
| | | | | | | 7 | 6 | 5 $\frac{3}{4}$ | 9 | 6 | 6 |
| (41) | | | (42) | | | (43) | | | (44) | | |
| 8 | 0 | 10 $\frac{1}{2}$ | 6 | 5 | 7 $\frac{1}{2}$ | 7 | 6 | 5 $\frac{1}{2}$ | 9 | 9 | 7 $\frac{1}{2}$ |
| 7 | 0 | 3 $\frac{1}{4}$ | 5 | 7 $\frac{1}{2}$ | 8 | 8 | 10 $\frac{1}{4}$ | 7 | 6 | 4 $\frac{1}{2}$ | |
| 9 | 0 | 5 $\frac{1}{2}$ | 1 | 7 | 5 $\frac{1}{4}$ | 3 | 8 | 11 $\frac{3}{4}$ | 3 | 7 | 6 $\frac{1}{2}$ |
| 6 | 0 | 7 $\frac{1}{4}$ | 7 | 6 | 11 | 6 | 8 | 10 $\frac{1}{2}$ | 3 | 9 | 7 $\frac{1}{2}$ |
| 2 | 0 | 8 $\frac{1}{2}$ | 8 | 9 | 2 | 7 | 11 $\frac{1}{4}$ | 6 | 2 | 5 $\frac{1}{4}$ | |
| 2 | 0 | 9 $\frac{1}{2}$ | 4 | 8 $\frac{1}{2}$ | 9 | 7 | 11 $\frac{3}{4}$ | 3 | 2 | 3 | |
| 2 | 0 | 6 $\frac{1}{4}$ | 3 | 7 | 7 | 4 | 9 | 9 $\frac{1}{2}$ | 7 | 6 | 5 |
| 3 | 0 | 6 $\frac{3}{4}$ | 2 | 6 | 8 | 1 | 4 | 7 $\frac{1}{2}$ | 4 | 0 | 0 |
| 7 | 0 | 2 $\frac{3}{4}$ | 9 | 9 | 9 | 5 | 3 | 6 $\frac{1}{4}$ | 9 | 9 | 9 $\frac{1}{2}$ |

| (45) | | | (46) | | | (47) | | | (48) | | |
|------|----|----------------|------|----|-----------------|------|----|----------------|------|----|----|
| £. | s. | d. | £. | s. | d. | £. | s. | d. | £. | s. | d. |
| 3 | 2 | 0 | 9 | 8 | $7\frac{1}{2}$ | 3 | 7 | $8\frac{3}{4}$ | 6 | 1 | 5 |
| 1 | 8 | $9\frac{1}{2}$ | 9 | 9 | $10\frac{3}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 2 | 3 | 11 |
| 4 | 1 | $9\frac{1}{2}$ | 9 | 3 | $7\frac{3}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 9 | 7 | 6 |
| 1 | 4 | $0\frac{1}{4}$ | 5 | 7 | $8\frac{3}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 8 | 7 | 10 |
| 5 | 2 | $9\frac{3}{4}$ | 6 | 6 | $6\frac{1}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 8 | 9 | 9 |
| 9 | 8 | 7 | 7 | 5 | $2\frac{1}{2}$ | 3 | 7 | $8\frac{3}{4}$ | 5 | 7 | 3 |
| 2 | 7 | $6\frac{1}{2}$ | 3 | 0 | $4\frac{1}{2}$ | 3 | 7 | $8\frac{3}{4}$ | 3 | 4 | 6 |
| 1 | 6 | 3 | 4 | 2 | $2\frac{1}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 8 | 6 | 3 |
| 4 | 3 | $2\frac{1}{4}$ | 2 | 9 | $11\frac{1}{2}$ | 3 | 7 | $8\frac{3}{4}$ | 9 | 8 | 7 |
| | | | 7 | 6 | $3\frac{3}{4}$ | 3 | 7 | $8\frac{3}{4}$ | 2 | 3 | 2 |

| (49) | | | (50) | | | (51) | | | (52) | | |
|------|----|-----------------|------|----|-----------------|------|----|-----------------|------|----|-----------------|
| £. | s. | d. | £. | s. | d. | £. | s. | d. | £. | s. | d. |
| 1 | 6 | $11\frac{1}{2}$ | 1 | 0 | $9\frac{1}{2}$ | 7 | 6 | $8\frac{1}{2}$ | 8 | 5 | $3\frac{1}{2}$ |
| 2 | 7 | $6\frac{3}{4}$ | 2 | 8 | $7\frac{1}{2}$ | 1 | 5 | $11\frac{3}{4}$ | 9 | 6 | 4 |
| 3 | 8 | $5\frac{1}{4}$ | 3 | 6 | $5\frac{3}{4}$ | 2 | 7 | 3 | 7 | 3 | $11\frac{1}{3}$ |
| 4 | 1 | $7\frac{1}{2}$ | 6 | 4 | $11\frac{1}{2}$ | 3 | 8 | $5\frac{1}{4}$ | 7 | 8 | 10 |
| 5 | 9 | $4\frac{3}{8}$ | 4 | 9 | $10\frac{3}{4}$ | 8 | 9 | 8 | 9 | 5 | $6\frac{3}{4}$ |
| 6 | 2 | $8\frac{3}{4}$ | 8 | 7 | $8\frac{1}{2}$ | 9 | 1 | $7\frac{1}{4}$ | 8 | 3 | 7 |
| 7 | 3 | $3\frac{1}{2}$ | 9 | 4 | $5\frac{1}{2}$ | 4 | 4 | 6 | 8 | 7 | $7\frac{3}{4}$ |
| 8 | 5 | $9\frac{3}{4}$ | 3 | 3 | $2\frac{3}{4}$ | 6 | 2 | $2\frac{3}{4}$ | 9 | 5 | 9 |
| 9 | 4 | $2\frac{1}{2}$ | 7 | 9 | $4\frac{1}{4}$ | 5 | 6 | 10 | 7 | 6 | $4\frac{1}{2}$ |
| 9 | 0 | $10\frac{1}{2}$ | 4 | 4 | $6\frac{1}{2}$ | 5 | 3 | 8 | 7 | 8 | 6 |
| | | | | | | 5 | 3 | $1\frac{1}{2}$ | 9 | 3 | $3\frac{1}{2}$ |
| | | | | | | | | | 6 | 2 | $5\frac{1}{2}$ |

EXERCISE II.

| (1) | | | (2) | | | (3) | | |
|------|----|-----------------|------|----|-----------------|-------|----|----------------|
| £. | s. | d. | £. | s. | d. | £. | s. | d. |
| 538 | 13 | $10\frac{1}{2}$ | 7040 | 19 | $1\frac{1}{2}$ | 42768 | 7 | $8\frac{1}{2}$ |
| 8427 | 15 | $8\frac{3}{4}$ | 86 | 13 | $5\frac{3}{4}$ | 13590 | 13 | $2\frac{3}{4}$ |
| 13 | 17 | 11 | 942 | 8 | $7\frac{1}{2}$ | 276 | 12 | $1\frac{1}{2}$ |
| 642 | 8 | $7\frac{1}{2}$ | 2568 | 10 | $10\frac{1}{2}$ | 8402 | 5 | $8\frac{3}{4}$ |
| | | | | | | 35679 | 16 | $3\frac{3}{4}$ |

| (4) | | | (5) | | | (6) | | |
|------|----|-----------------|-------|----|-----------------|------|----|----|
| £. | s. | d. | £. | s. | d. | £. | s. | d. |
| 796 | 15 | $8\frac{3}{4}$ | 7684 | 7 | $8\frac{1}{4}$ | 786 | 13 | 10 |
| 1248 | 19 | 11 | | 15 | $3\frac{1}{4}$ | 5419 | 12 | 8 |
| 2125 | 13 | $10\frac{3}{4}$ | | 19 | 13 | 8 | 17 | 6 |
| 203 | 4 | $3\frac{1}{4}$ | 256 | 15 | $11\frac{3}{4}$ | 427 | 11 | 2 |
| 8751 | 0 | 1 | 1825 | 8 | $4\frac{1}{4}$ | 2040 | 13 | 3 |
| 2125 | 13 | $10\frac{3}{4}$ | 32769 | 12 | $9\frac{1}{4}$ | 966 | 16 | 6 |
| | | | 82103 | 1 | 7 | 7045 | 1 | 11 |

| (7) | | | (8) | | |
|------|----|-----------------|---------|----|-----------------|
| £. | s. | d. | £. | s. | d. |
| 2197 | 12 | $10\frac{1}{4}$ | 127556 | 11 | $4\frac{1}{4}$ |
| 1208 | 0 | $8\frac{1}{2}$ | 71042 | 2 | 3 |
| 319 | 14 | $11\frac{3}{4}$ | 48931 | 19 | $7\frac{1}{4}$ |
| 9420 | 9 | $9\frac{3}{4}$ | 1632197 | 3 | $6\frac{3}{4}$ |
| 8531 | 16 | $7\frac{1}{2}$ | 49823 | 18 | $9\frac{3}{4}$ |
| 7642 | 1 | $2\frac{1}{4}$ | 3286 | 5 | 8 |
| 6753 | 18 | $6\frac{3}{4}$ | 254719 | 16 | $10\frac{1}{2}$ |
| 5864 | 3 | $5\frac{1}{2}$ | 6609 | 7 | $11\frac{1}{4}$ |

| (9) | | | (10) | | |
|--------|----|----|-------|----|-----------------|
| 416 | 13 | 11 | 1678 | 18 | $11\frac{1}{4}$ |
| 5274 | 14 | 6 | 5246 | 17 | 10 |
| 3708 | 5 | 8 | 356 | 13 | $5\frac{3}{4}$ |
| 2415 | 9 | 9 | 8562 | 5 | 9 |
| 56780 | 17 | 3 | 3427 | 6 | $0\frac{1}{2}$ |
| 26317 | 6 | 4 | 6 | 11 | $5\frac{1}{2}$ |
| 8412 | 18 | 10 | 249 | 12 | $3\frac{1}{4}$ |
| 90710 | 4 | 1 | 8542 | 6 | $0\frac{1}{4}$ |
| 11768 | 12 | 2 | 67 | 10 | $8\frac{1}{4}$ |
| 1259 | 17 | 5 | 243 | 19 | $2\frac{1}{2}$ |
| 32708 | 8 | 7 | 14274 | 8 | $4\frac{3}{4}$ |
| 673591 | 19 | 6 | 57343 | 9 | $10\frac{3}{4}$ |

(11) Add five hundred and thirty-nine pounds, fifteen shillings and sevenpence ; eighteen pounds, nine shillings and twopence three farthings.

(12) Add four hundred and sixty-seven pounds, ten shillings and ninepence halfpenny ; eight thousand, four hundred and fourteen pounds, three shillings and sevenpence halfpenny ; six pounds, six shillings and sixpence halfpenny.

(13) Add five hundred and fifty-eight pounds, four shillings and ninepence three farthings ; twenty-five pounds, fifteen shillings and twopence three farthings ; five hundred and thirty-two pounds, nine shillings and sevenpence ; seven thousand and ten pounds, eleven shillings and fourpence halfpenny.

(14) Add four thousand, two hundred and seventy-nine pounds, thirteen shillings and eightpence halfpenny ; one hundred and seventy-six pounds, fifteen shillings and ninepence ; two thousand and forty pounds, eleven shillings and tenpence farthing ; one thousand, eight hundred and fifty-seven pounds, sixteen shillings and ninepence halfpenny ; eight hundred and fifty-five pounds, five shillings and fivepence three farthings.

(15) Add eight hundred and fifty-three pounds, twelve shillings and ninepence ; one thousand, eight hundred and sixty-six pounds, four shillings and tenpence ; eight hundred and fifty-one pounds, two shillings and elevenpence ; two thousand, eight hundred and twenty-five pounds, eight shillings and fourpence ; seventy-six thousand, nine hundred and two pounds, eleven shillings and threepence ; sixteen thousand, seven hundred pounds, nineteen shillings and elevenpence.

(16) Add nine thousand, two hundred and ten pounds, three shillings and sevenpence three farthings ; eight thousand, one hundred and twenty-seven pounds, and one shilling ; eight thousand, eight hundred and eighty-eight pounds and elevenpence halfpenny ; fifty-three pounds, thirteen shillings and eightpence halfpenny ; twelve thousand and seventy-two pounds, three shillings and one penny ; nine hundred and seventy-eight pounds, sixteen shillings and threepence farthing ; four thousand and sixty-three pounds, fifteen shillings and sixpence halfpenny.