

## Workplace Math Skills Assessment - Answer Key

### Section I - Whole Numbers

Mastery (7 correct out of 8 possible)

- |        |        |         |        |
|--------|--------|---------|--------|
| 1. 983 | 2. 304 | 3. 227  | 4. 41  |
| 5. 428 | 6. 8   | 7. 1137 | 8. 201 |

### Section II - Decimals

Mastery (7 correct out of 8 possible)

- |           |             |          |           |
|-----------|-------------|----------|-----------|
| 1. 39.125 | 2. 185.9875 | 3. 41.25 | 4. 95.875 |
| 5. 37.150 | 6. 2.484    | 7. 58.5  | 8. 96.25  |

### Section III - Shop Fractions

Mastery (7 correct out of 8 possible)

- |                      |                    |                     |                                       |
|----------------------|--------------------|---------------------|---------------------------------------|
| 1. 38 <b>c</b>       | 2. 53 <b>e</b>     | 3. 13 <b>d</b>      | 4. $4\frac{24}{32}$ or $4\frac{3}{4}$ |
| 5. $27\frac{17}{32}$ | 6. $5\frac{5}{32}$ | 7. $3\frac{15}{16}$ | 8. 19 <b>e</b>                        |

### Section IV - Scale Drawing

Mastery (7 correct out of 8 possible)

- |            |             |               |             |
|------------|-------------|---------------|-------------|
| 1. 4'      | 2. 6'       | 3. 16 sq feet | 4. 76 tiles |
| 5. 4 boxes | 6. 24 tiles | 7. 52 sq feet | 8. 44 feet  |

### Section V - Metric Conversion

Mastery (7 correct out of 8 possible)

- |                   |                      |
|-------------------|----------------------|
| 1. 170 mm         | 2. .4 cm             |
| 3. 3cm + 4.1 cm = | 7.1 cm or 71 mm      |
| 4. 40 mm - 3 mm = | 3.7 cm or 37 mm      |
| 5. (9.5)(2.54) =  | 24.13 cm or 241.3 mm |
| 6. (.25)(2.54) =  | .635 cm or 6.35 mm   |
| 7. (1)(2.54) =    | 2.54 cm or 25.4 mm   |
| 8. (.75)(2.54) =  | 19.05 mm or 1.905 cm |

### Section VI - Ranking Decimals and Fractions

Mastery (7 correct out of 8 possible)

- |  |   |   |
|--|---|---|
| 1. <b>e</b> $\frac{1}{4}$ $\frac{3}{16}$               | 2. $\frac{5}{16}$ <b>c</b> $\frac{3}{32}$ | 3. $\frac{3}{4}$ $\frac{1}{2}$ <b>d</b> |
| 4. $\frac{1}{2}$ $\frac{1}{4}$ <b>c</b> $\frac{1}{32}$ | 5. .605 .0625 .007                        | 6. .707 .7 .070                         |
| 7. .109 .0625 .016 .0156                               |   | 8. .200 .020 .002                       |

### Section VII - Measurement

Mastery (7 correct out of 8 possible)

- |                   |                    |                    |                   |
|-------------------|--------------------|--------------------|-------------------|
| 1. $2\frac{1}{2}$ | 2. $4\frac{1}{16}$ | 3. $3\frac{5}{16}$ | 4. $\frac{7}{8}$  |
| 5. $1\frac{1}{4}$ | 6. $2\frac{7}{8}$  | 7. $4\frac{3}{4}$  | 8. $\frac{3}{16}$ |