

Outcome 3 - Lowest Common Multiple

Bronze example

Examples... **The Lowest Common Multiple is the SMALLEST number that appears in both lists!**

What is the Lowest Common Multiple of 10 and 8?

Multiples of 10... L.C.M. = 40
10, 20, 30, 40, 50, ...

Multiples of 8...
8, 16, 24, 32, 40, ...

Silver example

Examples... **The Lowest Common Multiple is the SMALLEST number that appears in both lists!**

What is the Lowest Common Multiple of 60 and 40?

Multiples of 60... L.C.M. = 120
60, 120, 180, 240, 300, ...

Multiples of 40...
40, 80, 120, 160, 200, 240, ...

Gold example

Examples... **The Lowest Common Multiple is the SMALLEST number that appears in both lists!**

What is the Lowest Common Multiple of 35 and 30?

Multiples of 35... L.C.M. = 210
35, 70, 105, 140, 175, 210, ...

Multiples of 30...
30, 60, 90, 120, 150, 210, ...

Bronze Questions

Write down the Lowest Common Multiple (L.C.M.) of...

- | | |
|------------|-------------|
| 1 8 and 6 | 2 9 and 3 |
| 3 10 and 3 | 4 9 and 2 |
| 5 12 and 4 | 6 4 and 3 |
| 7 7 and 6 | 8 8 and 4 |
| 9 5 and 3 | 10 11 and 7 |

Silver Questions

Write down the Lowest Common Multiple (L.C.M.) of...

- | | |
|--------------|---------------|
| 1 50 and 40 | 2 120 and 80 |
| 3 100 and 60 | 4 90 and 30 |
| 5 120 and 50 | 6 80 and 30 |
| 7 70 and 40 | 8 80 and 20 |
| 9 50 and 20 | 10 110 and 80 |

Gold Questions

Write down the Lowest Common Multiple (L.C.M.) of...

- | | |
|-------------|--------------|
| 1 46 and 36 | 2 45 and 20 |
| 3 32 and 20 | 4 34 and 28 |
| 5 34 and 22 | 6 46 and 32 |
| 7 40 and 36 | 8 50 and 22 |
| 9 42 and 32 | 10 49 and 35 |

Bronze Answers

- | | | | |
|----|----|-----|----|
| 1. | 24 | 2. | 9 |
| 3. | 30 | 4. | 18 |
| 5. | 12 | 6. | 12 |
| 7. | 42 | 8. | 8 |
| 9. | 15 | 10. | 77 |

Silver Answers

- | | | | |
|----|-----|-----|-----|
| 1. | 200 | 2. | 240 |
| 3. | 300 | 4. | 90 |
| 5. | 600 | 6. | 240 |
| 7. | 280 | 8. | 80 |
| 9. | 100 | 10. | 880 |

Gold Answers

- | | | | |
|----|-----|-----|-----|
| 1. | 828 | 2. | 180 |
| 3. | 160 | 4. | 476 |
| 5. | 374 | 6. | 736 |
| 7. | 360 | 8. | 550 |
| 9. | 672 | 10. | 245 |