

TARGET To identify common multiples.

Multiples are the numbers in a multiplication table. If we make separate lists of the multiples of two numbers some of their multiples will be common to both lists.

Examples

Multiples of 4 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, ... 60, ... 80, ...

Multiples of 5 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ... 80, ...

Common Multiples The common multiples of 4 and 5 are 20, 40, 60, 80 and so on.

Lowest Common Multiple The lowest common multiple of 4 and 5 is 20.

A

Write down the first six multiples of:

- | | |
|-----|-------|
| 1 5 | 3 11 |
| 2 8 | 4 20. |

Write Yes or No.

- 5 Is 47 a multiple of 2?
- 6 Is 39 a multiple of 3?
- 7 Is 36 a multiple of 4?
- 8 Is 58 a multiple of 5?
- 9 Is 72 a multiple of 6?
- 10 Is 72 a multiple of 7?
- 11 Is 72 a multiple of 8?
- 12 Is 72 a multiple of 9?
- 13 Is 105 a multiple of 10?
- 14 Is 330 a multiple of 11?
- 15 Is 132 a multiple of 12?
- 16 Is 100 a multiple of 15?
- 17 Find
 - a) the 20th multiple of 6
 - b) the 8th multiple of 15.

B

Find two numbers that are common multiples of:

- | | |
|-----------|------------|
| 1 2 and 5 | 5 4 and 7 |
| 2 2 and 7 | 6 5 and 6 |
| 3 3 and 5 | 7 2 and 11 |
| 4 3 and 8 | 8 3 and 7. |

Find the lowest common multiple of:

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

Find the lowest common multiple of each group of numbers.

- 17 3, 6 and 12
- 18 4, 6 and 12
- 19 2, 3 and 4
- 20 2, 3 and 5
- 21 2, 4 and 8
- 22 3, 4 and 8
- 23 The 9th multiple of 16 is the 8th multiple of which number?

C

Find three numbers that are multiples of:

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

Find the lowest common multiple of:

- | | |
|-------------|---------------|
| 9 2 and 13 | 13 10 and 12 |
| 10 4 and 14 | 14 15 and 25 |
| 11 5 and 11 | 15 8 and 12 |
| 12 4 and 10 | 16 16 and 18. |

Find the lowest common multiple of each group of numbers.

- 17 3, 5 and 6
- 18 4, 5 and 6
- 19 2, 4 and 7
- 20 3, 4 and 7
- 21 3, 4 and 8
- 22 3, 5 and 8
- 23 The 12th multiple of 44 is the 11th multiple of which number?