

Warm-Up: Listing Multiples

List the first 5 multiples of:

a) 3 b) 6 c) 7 d) 9 e) 12

Find the Common Multiples

Write down the first 3 common multiples of:

a) 4 and 6 b) 5 and 10 c) 8 and 12 d) 3 and 9 e) 7 and 14

True or False?

24 is a multiple of 8.

36 is a multiple of 9.

50 is a multiple of 6.

45 is a multiple of 3.

Challenge Section 🧠

Find the smallest common multiple (LCM) of:

a) 6 and 9 b) 8 and 12 c) 10 and 15

Write three numbers that are all multiples of 4 and 6.

Explain: What is the difference between a factor and a multiple?

Warm-Up: Listing Multiples

List the first 5 multiples of:

a) 3: 3, 6, 9, 12, 15 b) 6: 6, 12, 18, 24, 30 c) 7: 7, 14, 21, 28, 35 d) 9: 9, 18, 27, 36, 45 e) 12: 12, 24, 36, 48, 60

Find the Common Multiples

Write down the first 3 common multiples of:

a) 4 and 6: 12, 24, 36 b) 5 and 10: 10, 20, 30 c) 8 and 12: 24, 48, 72 d) 3 and 9: 9, 18, 27 e) 7 and 14: 14, 28, 42

True or False?

1. 24 is a multiple of 8. **True**
 2. 36 is a multiple of 9. **True**
 3. 50 is a multiple of 6. **False** (Closest multiples of 6 are 48 and 54)
 4. 45 is a multiple of 3. **True**
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Challenge Section 🧐

Find the smallest common multiple (LCM) of:

a) 6 and 9: 18 b) 8 and 12: 24 c) 10 and 15: 30

Write three numbers that are all multiples of 4 and 6: **12, 24, 36**

Explain: What is the difference between a factor and a multiple?

- A **factor** of a number is a whole number that divides exactly into another number (e.g., 3 is a factor of 12 because $12 \div 3 = 4$).
 - A **multiple** is the result of multiplying a number by an integer (e.g., 12 is a multiple of 3 because $3 \times 4 = 12$).
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