



Multiples And Lowest Common Multiples

Mana Maths

Te reo Māori terms



taurea

multiple

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taurea pātahi

common multiple

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taurea pātahi iti

rawa

lowest common multiple

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uara

number value

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Foundation

1. Write the first 5 multiples of 2.

2. Write the first 5 multiples of 3.

3. Write the first 5 multiples of 4.

4. Write the first 5 multiples of 5.

5. Write the first 5 multiples of 6.

6. Is 18 a multiple of 3?

7. Is 20 a multiple of 5?

8. Is 21 a multiple of 4?

9. Circle the common multiples of 2 and 3: 4, 6, 8, 12, 14.

10. Circle the common multiples of 3 and 4: 6, 8, 12, 15, 24.

11. Find the lowest common multiple of 2 and 3.

12. Find the lowest common multiple of 2 and 4.

13. Find the lowest common multiple of 3 and 5.

14. Find the lowest common multiple of 4 and 5.

15. Complete: the next multiple of 7 after 21 is .

16. Complete: the next multiple of 8 after 24 is .

Proficient

1. Write the first 6 multiples of 7.
2. Write the first 6 multiples of 8.
3. Write the first 6 multiples of 9.
4. List the common multiples of 4 and 6 up to 36.
5. List the common multiples of 5 and 7 up to 70.
6. Find the lowest common multiple of 4 and 6.
7. Find the lowest common multiple of 6 and 8.
8. Find the lowest common multiple of 9 and 12.
9. Find the lowest common multiple of 7 and 10.
10. Find the lowest common multiple of 5 and 12.
11. Fill in the blank: the lowest common multiple of 3 and 8 is \square .
12. Fill in the blank: the lowest common multiple of 6 and 9 is \square .

13. Is 24 a common multiple of 4 and 6?

14. Is 30 the lowest common multiple of 5 and 6?

15. Which is greater: the lowest common multiple of 3 and 4, or the lowest common multiple of 2 and 9?

16. Two bells ring every 4 minutes and every 6 minutes. After how many minutes will they ring together again?

Excellence

1. A student says the lowest common multiple of 4 and 6 is 10. Are they correct? Explain.
2. A student says 36 is the lowest common multiple of 6 and 9. Are they correct? Explain.
3. Write the first 3 common multiples of 6 and 8.
4. Write the first 3 common multiples of 9 and 12.
5. Find the lowest common multiple of 8 and 14.
6. Find the lowest common multiple of 12 and 15.
7. Find the lowest common multiple of 18 and 24.
8. Fill in both blanks: the first two common multiples of 4 and 9 are \square and \square .
9. Fill in the blank: the lowest common multiple of a and 6 is 18 when $a = \square$.

- 10.** Which does not belong: 12, 18, 24, 30 as common multiples of 3 and 6?
- 11.** Which is greater: the lowest common multiple of 6 and 10, or the lowest common multiple of 8 and 12? Show enough working to justify.
- 12.** Three lights flash every 6, 8, and 12 seconds. After how many seconds will they all flash together again?
- 13.** A bus comes every 9 minutes and a train comes every 15 minutes. If they leave now at the same time, after how many minutes will they leave together again?
- 14.** Is 48 a common multiple of 6 and 8? Is it the lowest common multiple? Explain.
- 15.** Complete: if the lowest common multiple of 5 and n is 35, then $n = \underline{\hspace{2cm}}$.

- 16.** Explain why the lowest common multiple of two numbers must be a multiple of both numbers.