



Lowest Common Multiple

Upper Primary Advance Maths

Determine the LCM for the maths questions below.

Lowest Common Multiple (LCM)

LCM is the **smallest** number that is a multiple of two or more given numbers.

Example: The LCM of 4 and 6 is 12, since 12 is the smallest number divisible by both 4 and 6 that is common to both digits.

Multiples of 4: **0, 4, 8, 12, 16**

Multiples of 6: **0, 6, 12, 18, 24.....**

1. What is the LCM of 9 and 6 ?

Ans: _____

2. Find the LCM of 12, 18, and 24.

Ans: _____

3. A shop sells cookies in packs of 6 and 8. What is the smallest number of cookies to have equal packs?

Ans: _____

4. Three bells ring every 10, 15, and 20 minutes. After ringing together at 9 AM, when do they ring together again?

Ans: _____



Lowest Common Multiple - Solutions

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LCM is the **smallest** number that is a multiple of two or more given numbers.

Example: The LCM of 4 and 6 is 12, since 12 is the smallest number divisible by both 4 and 6 that is common to both digits.

Multiples of 4: **4, 8, 12, 16**

Multiples of 6: **6, 12, 18, 24.....**

1. What is the LCM of 9 and 6 ?

Multiples of 9: **9, 18, 27, 36**

Multiples of 6: **6, 12, 18, 24**

Ans: 18

2. Find the LCM of 2, 3, and 4.

Multiples of 2: **2, 4, 6, 8, 10, 12**

Multiples of 3: **3, 6, 9, 12, 15, 18**

Multiples of 4: **4, 8, 12, 16, 20, 24**

Ans: 12

3. A shop sells cookies in packs of 6 and 8. What is the smallest number of cookies to have equal packs?

LCM of 6 & 8 Multiples of 8: **8, 16, 24, 32,**

Multiples of 6: **6, 12, 18, 24**

Ans: 24

4. Three bells ring every 10, 15, and 20 minutes. After ringing together at 9 AM, when do they ring together again?

LCM of 10, 15 & 20 Multiples of 10: **10, 20, 30, 40, 50, 60**

Multiples of 15: **15, 30, 45, 60**

Multiples of 20: **20, 40, 60**

LCM of 10, 15 and 20 is 60 mins. The three bells will ring together next in 60 mins, which means an hour later. That is 10am.

Ans: 10 am