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Fractions Skill 5 - 11A

Least Common Multiple (LCM)

test question 11A

Directions: Find the least common multiple of 6 and 8. The answer is 24.

Step 1: Start by listing the multiples of 6 and 8 until you find the same number in both lists.

List the multiples of 6. The multiples are 6, 12, 18, 24 as shown below.

 $6 \times 1 = 6$ $6 \times 2 = 12$ $6 \times 3 = 18$ $6 \times 4 = 24$

The multiples of 8 are 8, 16, 24, and 32 as shown below.

8 x 1 = 8 8 x 2 = 16 8 x 3 = 24 8 x 4 = 32

Step 2: Compare the common multiples. Find the smallest number that is in both lists.

The multiples of 6 are 6, 12, 18, 24 The multiples of 8 are 8, 16, 24, 32

The number 24 is the smallest number that appears in both lists. So, 24 is the least common multiple.

Find the least common multiple of the following numbers. The first one is an example.

Find the LCM of 2 and 7 2: 2, 4, 6, 8, 10, 12, 14 7: 7, 14, 21, 28, 35, 42 The LCM is 14.	1. 3 and 4	2. 3 and 5
3 . 2 and 6	4 . 6 and 8	5 . 2 and 4
6 . 5 and 9	7 . 6 and 12	8 . 2 and 7
9 . 6 and 15	10 . 3 and 10	11 . 9 and 18

Fractions Skill 5 - 11A Least Common Multiple (LCM) Find the least common multiple of the following numbers. 12. 4 and 6 13. 3 and 6 14. 2 and 4 15. 8 and 10 16. 4 and 14 17. 7 and 21 18. 6 and 15 19. 3 and 10 20. 9 and 18 21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10 27. 4, 10 and 16 28. 2, 4 and 10 29. 4, 8 and 32	Name	Da	ate	Page 2					
Find the least common multiple of the following numbers.14. 2 and 412. 4 and 613. 3 and 614. 2 and 415. 8 and 1016. 4 and 1417. 7 and 2118. 6 and 1519. 3 and 1020. 9 and 1821. 6 and 1622. 4 and 1523. 4 and 724. 2, 3 and 825. 3, 6 and 1026. 5, 6 and 10									
12. 4 and 613. 3 and 614. 2 and 415. 8 and 1016. 4 and 1417. 7 and 2118. 6 and 1519. 3 and 1020. 9 and 1821. 6 and 1622. 4 and 1523. 4 and 724. 2, 3 and 825. 3, 6 and 1026. 5, 6 and 10	Least Common Multiple (LCM)								
15. 8 and 1016. 4 and 1417. 7 and 2118. 6 and 1519. 3 and 1020. 9 and 1821. 6 and 1622. 4 and 1523. 4 and 724. 2, 3 and 825. 3, 6 and 1026. 5, 6 and 10	Find the least common multiple of the following numbers.								
18. 6 and 15 19. 3 and 10 20. 9 and 18 21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10	12 . 4 and 6	13 . 3 and 6	14 . 2 and 4						
18. 6 and 15 19. 3 and 10 20. 9 and 18 21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10									
21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10	15 . 8 and 10	16 . 4 and 14	17 . 7 and 21						
21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10									
21. 6 and 16 22. 4 and 15 23. 4 and 7 24. 2, 3 and 8 25. 3, 6 and 10 26. 5, 6 and 10	18 . 6 and 15	19 . 3 and 10	20 . 9 and 18						
24 . 2, 3 and 8 25 . 3, 6 and 10 26 . 5, 6 and 10									
24 . 2, 3 and 8 25 . 3, 6 and 10 26 . 5, 6 and 10	04 0 and 40	00 4 and 45	00 4 and 7						
	21. 6 and 16	22. 4 and 15	23 . 4 and 7						
27 . 4, 10 and 16 28 . 2, 4 and 10 29 . 4, 8 and 32	24 . 2, 3 and 8	25 . 3, 6 and 10	26 . 5, 6 and 10						
27 . 4, 10 and 16 28 . 2, 4 and 10 29 . 4, 8 and 32									
	27 . 4. 10 and 16	28 . 2. 4 and 10	29 . 4. 8 and 32						
	,	, -	,						
30 . 2, 4 and 7 31 . 7, 14 and 21 32 . 5, 6 and 10	30 . 2, 4 and 7	31 . 7, 14 and 21	32 . 5, 6 and 10						

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Answers grade 5 11A practice sheet.

1. 12	2. 15	3.6	4. 24	5.4	6. 45	7. 12	8. 14	9. 30	10. 30	11. 18
			12. 12	13. 6	14.4	15. 40	16. 28	17. 21	18. 30	19. 30
20. 18	21.48	22. 60	23. 28	24. 24	25.30	26. 30	27.80	28. 20	29. 32	30. 28
31. 42										