

1.39

Least Common Multiple

• Example 1

Find the least common multiple of 6 and 8.

Multiples

48 is also a common multiple of 6 and 8, but we are looking for the *smallest* such number.

6: 6, 12, 18, **24**, 30, 36, 42, 48, . . .

8: 8, 16, **24**, 32, 40, 48, . . .

We see that 24 is the smallest number common to both lists. So 24 is the LCM of 6 and 8.

● ● ● CHECK YOURSELF 1

Find the LCM of 12 and 18.

● ● ● CHECK YOURSELF ANSWERS

1. The LCM is 36.

1.39 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____
2. _____
3. _____
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15. _____
16. _____

Find the least common multiple (LCM) for each of the following pairs of numbers.

- | | |
|---------------|---------------|
| 1. 2 and 3 | 2. 3 and 5 |
| 3. 4 and 6 | 4. 6 and 9 |
| 5. 10 and 20 | 6. 12 and 36 |
| 7. 9 and 12 | 8. 20 and 30 |
| 9. 12 and 16 | 10. 10 and 15 |
| 11. 12 and 15 | 12. 12 and 21 |
| 13. 18 and 36 | 14. 25 and 50 |
| 15. 25 and 40 | 16. 10 and 14 |

A N S W E R S

17. 30 and 40

18. 18 and 24

17. _____

19. 8 and 15

20. 20 and 21

18. _____

21. 30 and 150

22. 36 and 72

19. _____

23. 8 and 48

24. 15 and 60

20. _____

25. 4 and 12

26. 8 and 16

21. _____

27. 8 and 9

28. 15 and 20

22. _____

29. 5 and 25

30. 14 and 21

23. _____

31. 8 and 12

32. 20 and 25

24. _____

33. 18 and 30

34. 12 and 18

25. _____

35. 7 and 9

36. 8 and 11

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____

36. _____