

## Fractions

### Skill 5 - 11B

#### Least Common Denominator

Answer: Test Question 11B

**Directions:** Find the least common denominator.

Find the LCD of  $\frac{3}{5}$  and  $\frac{1}{6}$

The first step is to find the least common multiple of the denominators.

List the multiples of each denominator.

Multiples of 5 are 5, 10, 15, 20, 25, 30, 35, 40, ...

Multiples of 6 are 6, 12, 18, 24, 30, 36, 42, 48, ...

You can see that 30 is the smallest number that appears in both lists.

So, the least common denominator of  $\frac{3}{5}$  and  $\frac{1}{6}$  is 30.

Find the least common denominators of the following fractions. The first one is an example.

**Find the LCD of  $\frac{1}{6}$  and  $\frac{7}{15}$**

6: 6, 12, 18, 24, 30, 36, ...

15: 15, 30, 45, 60, ...

The LCD is 30.

1.  $\frac{1}{2}$  and  $\frac{1}{5}$

2.  $\frac{2}{3}$  and  $\frac{3}{4}$

3.  $\frac{1}{2}$  and  $\frac{2}{6}$

4.  $\frac{3}{4}$  and  $\frac{2}{7}$

5.  $\frac{2}{10}$  and  $\frac{3}{12}$

6.  $\frac{1}{3}$  and  $\frac{4}{6}$

7.  $\frac{1}{5}$  and  $\frac{3}{4}$

8.  $\frac{2}{3}$  and  $\frac{4}{5}$

9.  $\frac{1}{2}$  and  $\frac{3}{9}$

10.  $\frac{2}{5}$  and  $\frac{3}{10}$

11.  $\frac{1}{3}$  and  $\frac{3}{12}$

12.  $\frac{2}{7}$  and  $\frac{3}{6}$

13.  $\frac{6}{8}$  and  $\frac{2}{3}$

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#### Least Common Denominator

The easiest way to find a common denominator is to multiply the denominators.

Find a common denominator of  $\frac{3}{5}$  and  $\frac{1}{6}$ .

Multiply the denominators  $5 \times 6 = 30$ .

30 is a common denominator and 30 is the least common denominator in this case. However, the product of the denominators can be greater than the LCD.

Find the least common denominators of the following fractions.

14.  $\frac{1}{7}$  and  $\frac{1}{2}$

15.  $\frac{3}{6}$  and  $\frac{2}{9}$

16.  $\frac{1}{4}$  and  $\frac{3}{12}$

17.  $\frac{1}{8}$  and  $\frac{3}{4}$

18.  $\frac{2}{15}$  and  $\frac{3}{5}$

19.  $\frac{1}{10}$  and  $\frac{4}{5}$

20.  $\frac{7}{16}$  and  $\frac{2}{8}$

21.  $\frac{5}{8}$  and  $\frac{3}{4}$

22.  $\frac{2}{3}$  and  $\frac{1}{6}$

23.  $\frac{1}{2}$  and  $\frac{3}{9}$

24.  $\frac{7}{8}$  and  $\frac{3}{4}$

25.  $\frac{1}{6}$  and  $\frac{3}{7}$

26.  $\frac{2}{3}$  and  $\frac{1}{15}$

27.  $\frac{1}{5}$  and  $\frac{2}{3}$

Answers grade 5 11B practice sheet.

1. 10

2. 12

3. 12

4. 28

5. 60

6. 6

7. 20

8. 15

9. 18

10. 10

11. 12

12. 42

13. 24

14. 14

15. 18

16. 12

17. 8

18. 15

19. 10

20. 16

21. 8

22. 6

23. 18

24. 8

25. 42

26. 15

27. 15