

## 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.

$8 \times 1 = 8$

$8 \times 2 = 16$

$8 \times 3 = 24$

$8 \times 4 = 32$

**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

30. 2, 4 and 7

31. 7, 14 and 21

32. 5, 6 and 10

