

Week 1 - Tuesday: LCM & Adding Fractions - Answer Key

Name: _____ Date: _____

4 steps: 1) Common denominator 2) Rename 3) Add 4) Simplify

Find the LEAST common multiple by listing multiples. Add the tops, keep the bottom.

Example: $\frac{4}{9} + \frac{1}{3}$

Multiples of 9: 9, 18 Multiples of 3: 3, 6, 9 Common denominator = 9

$$\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$$

Least Common Multiple (LCM): skip count each number, circle the shared ones, pick the SMALLEST.

No match yet? Keep counting! Example: 3: 3, 6, 9, 12 6: 6, 12 LCM = 6

Part A - Find the Least Common Multiple (LCM)

1) LCM of 3 and 6

3:

6:

Answer: 6

2) LCM of 4 and 10

4:

10:

Answer: 20

3) LCM of 9 and 6

9:

6:

Answer: 18

4) LCM of 2 and 5

2:

5:

Answer: 10

5) LCM of 3 and 4

3:

4:

Answer: 12

6) LCM of 12, 4 and 8

12:

4:

8:

Answer: 24

Part B - Step 2: Rename (multiply top and bottom by the same number)

7) $\frac{2}{6} = \frac{?}{30}$

Answer: 10 (x5)

8) $\frac{3}{4} = \frac{?}{12}$

Answer: 9 (x3)

9) $\frac{1}{2} = \frac{?}{10}$

Answer: 5 (x5)

10) $\frac{5}{6} = \frac{?}{12}$

Answer: 10 (x2)

Part C - All 4 steps: common denominator, rename, add, simplify

11) $\frac{4}{9} + \frac{1}{3} =$

Answer: 7/9

12) $\frac{3}{10} + \frac{2}{6} =$

Answer: 19/30

13) $\frac{1}{2} + \frac{1}{4} =$

Answer: 3/4

14) $\frac{1}{3} + \frac{1}{6} =$

Answer: 3/6 = 1/2 (simplified)

Part C (continued)

15) $\frac{2}{5} + \frac{1}{10} =$

Answer: $5/10 = 1/2$ (simplified)

16) $\frac{1}{4} + \frac{1}{6} =$

Answer: $5/12$

17) $\frac{1}{2} + \frac{1}{3} =$

Answer: $5/6$

18) $\frac{3}{8} + \frac{1}{4} =$

Answer: $5/8$

Part C (continued)

19) $\frac{1}{4} + \frac{1}{12} =$

Answer: $4/12 = 1/3$ (simplified)

20) $\frac{2}{3} + \frac{1}{12} =$

Answer: $9/12 = 3/4$ (simplified)

Explain: Why can't you just add the bottom numbers too?

The bottom number is the size of the pieces. You add pieces of the same size; their size stays the same.