

Name: Class:

Least common denominator



Find the least common denominator of the following fractions. (follow the example).

1. $\frac{2}{9}$ and $\frac{5}{6}$

Prime factors of 9 = 3×3

Prime factors of 6 = 2×3

The LCD of 9 and 6 = $3 \times 3 \times 2 = 18$

Therefore, the LCD of $\frac{2}{9}$ and $\frac{5}{6} = 18$.

2. $\frac{11}{24}$ and $\frac{8}{7}$

3. $\frac{3}{2}$; $\frac{13}{20}$ and $\frac{1}{3}$

1. Find the LCD of the of $\frac{10}{20}$ and $\frac{24}{4}$ and tick the right answer.

- 20 240 60 4

3. Find the LCD of the of $\frac{8}{9}$; $\frac{2}{12}$ and $\frac{11}{24}$ and tick the right answer.

- 62 144 216 72

3. Find the LCD of the of $\frac{5}{15}$; $\frac{2}{3}$ and $\frac{1}{30}$ and tick the right answer.

- 3 30 40 15



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b. $\frac{11}{24}$ and $\frac{8}{7}$

Prime factors of 24 = $2 \times 2 \times 2 \times 3$

Prime factors of 7 = 7

The LCD of 9 and 6 = $2 \times 2 \times 2 \times 3 \times 7 = 168$

Therefore, the LCD of $\frac{11}{24}$ and $\frac{8}{7} = 168$.

c. $\frac{3}{2}$; $\frac{13}{20}$ and $\frac{1}{3}$

Prime factors of 2 = 2

Prime factors of 20 = $2 \times 2 \times 5$

Prime factors of 3 = 3

The LCD of 2;20 and 3 = $2 \times 2 \times 5 \times 3 = 60$

Therefore, the LCD of $\frac{2}{3}$; $\frac{13}{20}$ and $\frac{1}{3} = 60$.

d. Find the LCD of $\frac{10}{20}$ and $\frac{24}{4}$ and tick the right answer.

20

240

60

4

e. Find the LCD of $\frac{8}{9}$; $\frac{2}{12}$ and $\frac{11}{24}$ and tick the right answer.

62

144

216

72

f. Find the LCD of $\frac{5}{15}$; $\frac{2}{3}$ and $\frac{1}{30}$ and tick the right answer.

3

30

40

15

