Name: .... Class: ....

Least common denominator

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

a. $\dfrac{2}{9}$ and $\dfrac{5}{6}$

Prime factors of 9 = 3 × 3
Prime factors of 6 = 2 × 3
The LCD of 9 and 6 = 3 × 3 × 2 = 18

Therefore, the LCD of 2/9 and 5/6 = 18.

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

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

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

☐ 20   ☐ 240   ☐ 60   ☐ 4

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

☐ 62   ☐ 144   ☐ 216   ☐ 72

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

☐ 3   ☐ 30   ☐ 40   ☐ 15

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Name: .... Class: ....

Least common denominator

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

a. $\dfrac{2}{9}$ and $\dfrac{5}{6}$

Prime factors of 9 = ③ x ③
Prime factors of 6 = ② x 3
The LCD of 9 and 6 = 3 x 3 x 2 = 18

Therefore, the LCD of 2/9 and 5/6 = 18.

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

Prime factors of 24 = 2 x 2 x 2 x 3
Prime factors of 7 = ⑦
The LCD of 9 and 6 = 2x2x2x3x7 = 168

Therefore, the LCD of 11/24 and 8/7 = 168.

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

Prime factors of 2 = ②
Prime factors of 20 = 2 x ② x ⑤
Prime factors of 3 = ③
The LCD of 2;20 and 3 = 2x2x5x3 = 60

Therefore, the LCD of 2/3 ; 13/20 and 1/3 = 60.

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

☑ **20** ☐ **240** ☐ **60** ☐ **4**

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

☐ **62** ☐ **144** ☐ **216** ☑ **72**

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

☐ **3** ☑ **30** ☐ **40** ☐ **15**