

# 5 Fractions Review

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Learning outcome 6C: Solving equations with fractions

## Task 1:

Find the least common denominator (LCD). The first one is done for you.

(b)  $\frac{1}{2}$  and  $\frac{5}{6}$

2: 2, 4, 6

6: 6

$LCD(2, 6) = 6$

4.  $\frac{3}{4}$  and  $\frac{4}{9}$

4, 8, 12, 16, 20,

24, 28, 32, 36

4, 12, 20, 36  $LCD = 36$

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

$LCD = 21$

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

$LCD = 18$

6, 12, 18, 24, ...

9, 18, 27, ...

## Task 2:

Multiply. Write your answer in simplest form. The first two are done for you.

(c)  $6 \cdot \frac{1}{2}$

$3 \cdot \frac{1}{1}$

$3 \cdot 1 = 3$

(d)  $36 \cdot \frac{3}{4}$

$9 \cdot \frac{3}{1}$

$9 \cdot 3 = 27$

7.  $\frac{7}{21} \cdot \frac{2}{1}$

$= \frac{7(2)}{1} = 14$

8.  $\frac{18}{1} \cdot \frac{1}{6} = 3(1) = 3$

9.  $6 \cdot \frac{5}{6}$

10.  $\frac{4}{1} \cdot \frac{4}{1} = 16$

11.  $\frac{3}{21} \cdot \frac{2}{1} = 6$

12.  $\frac{2}{18} \cdot \frac{2}{1} = 4$

## Task 3:

Use the two examples below to use the distributive property to answer questions 1–5.

(e)  $6 \cdot \left(\frac{1}{2} + \frac{5}{6}\right)$   
 $6 \cdot \left(\frac{1}{2}\right) + 6 \cdot \left(\frac{5}{6}\right)$   
 $3 + 5$   
 $8$

(f)  $21 \cdot \left(\frac{2}{3} - \frac{2}{7}\right)$   
 $21 \cdot \left(\frac{2}{3}\right) - 21 \cdot \left(\frac{2}{7}\right)$   
 $14 - 6$   
 $8$

1)  $8 \cdot \left(\frac{1}{2} - \frac{7}{8}\right)$   
 $28 \cdot \frac{1}{2} - 8 \cdot \frac{7}{8}$   
 $2 - 7 = -5$

2)  $18 \cdot \left(\frac{1}{6} + \frac{2}{9}\right)$   
 $= 18 \cdot \frac{1}{6} + 18 \cdot \frac{2}{9}$   
 $= 3 + 2(2)$   
 $= 3 + 4$   
 $= 7$

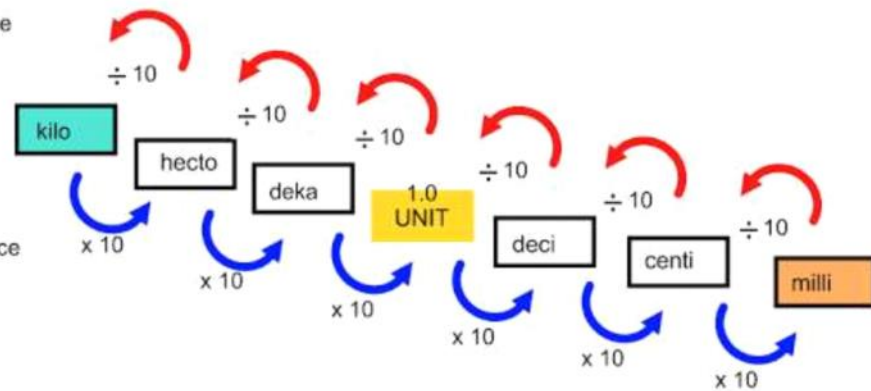
3)  $14 \cdot \left(\frac{5}{2} - \frac{2}{7}\right) = 14 \cdot \frac{5}{2} - 14 \cdot \frac{2}{7}$   
 $= 35 - 4$   
 $= 31$

4)  $36 \cdot \left(\frac{3}{4} + \frac{4}{9}\right) = 36 \cdot \frac{3}{4} + 36 \cdot \frac{4}{9}$   
 $= 9(3) + 4(4)$   
 $= 27 + 16 = 43$

5)  $12 \cdot \left(\frac{-2}{3} + \frac{1}{4}\right) = 12 \cdot \left(\frac{-2}{3}\right) + 12 \cdot \left(\frac{1}{4}\right)$   
 $= -8 + 3$   
 $= -5$

Move the decimal  
to the left one place  
each time

Move the decimal  
to the right one place  
each time



Example 1:

- a) Convert 3 kg (kilograms) into g (grams).    b) Convert 2.4 Gb (gigabyte) into kB (kilobyte)

Example 2:

- a) Convert 1 hm (hectometres) into km (kilometres).    b) Convert 250 mL (millilitre) into L (litres)

Example 3: Add 2.3 cm + 6.5 mm + 3 dm. Write your final answer in centimetres (cm).