

Maths

# Subtracting mixed numbers

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# Subtracting mixed numbers

1. Subtract the mixed numbers.  
Give answers in their simplest form.

a)  $1\frac{1}{3} - \frac{2}{9}$

b)  $2\frac{7}{8} - \frac{1}{4}$

c)  $3\frac{2}{3} - 2\frac{4}{9}$

d)  $4\frac{7}{12} - 2\frac{3}{8}$

e)  $1\frac{2}{3} - \frac{5}{12}$

f)  $8\frac{2}{3} - 5\frac{4}{15}$

2. Dora and Jack work out the same subtraction .

**Dora**

$$\begin{aligned} & 3\frac{4}{9} - 1\frac{5}{6} \\ &= \frac{31}{9} - \frac{11}{6} \\ &= \frac{62}{18} - \frac{33}{18} \\ &= \frac{29}{18} = 1\frac{11}{18} \end{aligned}$$

**Jack**

$$\begin{aligned} & 3\frac{4}{9} - 1\frac{5}{6} \\ &= 3 - 1 + \frac{4}{9} - \frac{5}{6} \\ &= 2 + \frac{8}{18} - \frac{15}{18} \\ &= 2 + \frac{7}{18} = 2\frac{7}{18} \end{aligned}$$

Who do you agree with and why?



## Subtracting mixed numbers

3. Subtract the mixed numbers.

Give answers in their simplest form.

a)  $1\frac{3}{8} - \frac{3}{4}$

b)  $4\frac{1}{2} - (-\frac{3}{4})$

c)  $3\frac{5}{12} - 2\frac{5}{6}$

d)  $1\frac{8}{15} - 2\frac{4}{5}$

e)  $2\frac{7}{12} - (-3\frac{3}{4})$

f)  $-2\frac{13}{20} - 5\frac{4}{15}$

4. The total of these cards is 2

What is the value of the third card?



5. Complete the addition grid.

+		$1\frac{3}{4}$
	$5\frac{19}{24}$	$4\frac{7}{8}$
		$-2\frac{5}{12}$



# Answers



# Subtracting mixed numbers

1. Subtract the mixed numbers.

Give answers in their simplest form.

a)  $1\frac{1}{3} - \frac{2}{9} = 1\frac{1}{9}$     b)  $2\frac{7}{8} - \frac{1}{4} = 2\frac{5}{8}$

c)  $3\frac{2}{3} - 2\frac{4}{9} = 1\frac{2}{9}$     d)  $4\frac{7}{12} - 2\frac{3}{8} = 2\frac{5}{24}$

e)  $1\frac{2}{3} - \frac{5}{12} = 1\frac{1}{4}$     f)  $8\frac{2}{3} - 5\frac{4}{15} = 3\frac{2}{5}$

2. Dora and Jack work out the same subtraction .

Dora	Jack
$3\frac{4}{9} - 1\frac{5}{6}$	$3\frac{4}{9} - 1\frac{5}{6}$
$= \frac{31}{9} - \frac{11}{6}$	$= 3 - 1 + \frac{4}{9} - \frac{5}{6}$
$= \frac{62}{18} - \frac{33}{18}$	$= 2 + \frac{8}{18} - \frac{15}{18}$
$= \frac{29}{18} = 1\frac{11}{18}$	$= 2 + \frac{7}{18} = 2\frac{7}{18}$

2 +  $-\frac{7}{18}$  = 1  $+\frac{11}{18}$

Who do you agree with and why?



# Subtracting mixed numbers

3. Subtract the mixed numbers.

Give answers in their simplest form.

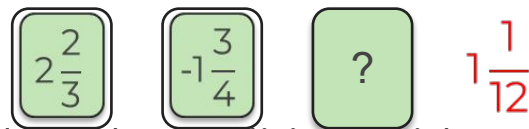
a)  $1\frac{3}{8} - \frac{3}{4} = \frac{5}{8}$       b)  $4\frac{1}{2} - (-\frac{3}{4}) = 5\frac{1}{4}$

c)  $3\frac{5}{12} - 2\frac{5}{6} = \frac{7}{12}$       d)  $1\frac{8}{15} - 2\frac{4}{5} = -1\frac{4}{15}$

e)  $2\frac{7}{12} - (-3\frac{3}{4}) = 6\frac{1}{3}$  g)  $-2\frac{13}{20} - 5\frac{4}{15} = -7\frac{11}{12}$

4. The total of these cards is 2.

What is the value of the third card?



5. Complete the addition grid.

+	$2\frac{2}{3}$	$1\frac{3}{4}$
$3\frac{1}{8}$	$5\frac{19}{24}$	$4\frac{7}{8}$
$-4\frac{1}{6}$	$-1\frac{1}{2}$	$-2\frac{5}{12}$

