

You will need:

- A pencil
- A ruler
- Your workbook or paper
- Coloured pen or pencil

18/01/2021

Adding mixed fractions

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Warm up

$$1) \quad \frac{5}{8} + \frac{1}{8} = \frac{\quad}{8}$$

$$2) \quad \frac{4}{10} + \frac{4}{10} = \frac{\quad}{10}$$

$$3) \quad \frac{3}{7} + \frac{2}{7} = \frac{\quad}{7}$$

$$4) \quad \frac{4}{3} + \frac{3}{3} = \frac{\quad}{3}$$

$$5) \quad \frac{5}{9} + \frac{3}{9} = \frac{\quad}{9}$$

$$6) \quad \frac{3}{4} + \frac{2}{4} = \frac{\quad}{4}$$

How do I add numbers with different denominators?

SECTION A

1	$\frac{1}{8} + \frac{1}{16}$

2	$\frac{1}{8} + \frac{3}{12}$

Let's practice

1	$\frac{1}{12} + \frac{1}{3}$
	$\frac{4}{12} + \frac{1}{3}$

2	$\frac{1}{14} + \frac{3}{28}$
	$\frac{5}{28}$

3	$\frac{4}{9} + \frac{3}{18}$
	$\frac{11}{18}$

4	$\frac{2}{3} + \frac{2}{15}$
	$\frac{12}{15} + \frac{4}{15}$

How do we convert a mixed number into an improper fraction?

Multiply the whole number by the denominator and add the numerator.

Keep the same denominator.

Then add.

$$4 \frac{1}{3} = \frac{13}{3}$$

Multiply.

How do I convert these numbers to improper fractions?

$$4\frac{1}{8}$$

$$6\frac{3}{4}$$

Now you try converting these numbers to improper fractions!

$$2\frac{3}{5}$$

$$7\frac{2}{9}$$

$$4\frac{6}{8}$$

$$3\frac{4}{7}$$

Now you try converting these numbers to improper fractions!

$$2\frac{3}{5} \quad \frac{13}{5}$$

$$7\frac{2}{9} \quad \frac{65}{9}$$

$$4\frac{6}{8} \quad \frac{38}{8}$$

$$3\frac{4}{7} \quad \frac{25}{7}$$

To add two mixed numbers you first need to:

- 1) Convert them into improper fractions
- 2) Find the lowest common denominator
- 3) Add as usual

$$4\frac{1}{8} + 6\frac{3}{4} =$$

$$2\frac{5}{8} + 4\frac{2}{6} =$$

B2

SECTION A - Write answers as mixed numbers

1 $1\frac{1}{2} + \frac{1}{4}$

2 $3\frac{2}{3} + 1\frac{1}{6}$

SECTION B - Write answers as mixed numbers, as appropriate

1 $3\frac{1}{3} + \frac{5}{9}$

2 $2\frac{6}{15} + 1\frac{1}{3}$

3 $4\frac{5}{16} + \frac{3}{4}$

SECTION C - Write answers in lowest terms and as mixed numbers, as appropriate

1 $5\frac{7}{9} + \frac{3}{5}$

2 $3\frac{4}{7} + 2\frac{2}{3}$

3 $2\frac{3}{4} + 4\frac{2}{3}$

B1

B2

SECTION A - Write answers as mixed numbers

1 $1\frac{1}{2} + \frac{1}{4}$

2 $3\frac{2}{3} + 1\frac{1}{6}$

SECTION B - Write answers as mixed numbers, as appropriate

1 $3\frac{1}{3} + \frac{5}{9}$

2 $2\frac{6}{15} + 1\frac{1}{3}$

3 $4\frac{5}{16} + \frac{3}{4}$

SECTION C - Write answers in lowest terms and as mixed numbers, as appropriate

1 $5\frac{7}{9} + \frac{3}{5}$

2 $3\frac{4}{7} + 2\frac{2}{3}$

3 $2\frac{3}{4} + 4\frac{2}{3}$

B1

Section A

1) $2\frac{3}{16}$ 2) $5\frac{5}{12}$

Section B

1) $1\frac{11}{12}$ 2) $4\frac{5}{28}$ 3) $5\frac{5}{12}$

Section C

1) $5\frac{1}{24}$ 2) $6\frac{2}{21}$ 3) $10\frac{7}{12}$ 4) $3\frac{1}{9}$