

Adding and subtracting fractions

The number line shows:
 $\frac{3}{10}$ orange, $\frac{4}{10}$ grey = $\frac{7}{10}$

1 Write the addition shown by each number line.

$\frac{1}{8}$ eighth + $\frac{5}{8}$ eighths = $\frac{6}{8}$ eighths
 $\frac{3}{5}$ fifths + $\frac{2}{5}$ fifths = $\frac{5}{5}$ fifths
 $\frac{2}{5}$ fifths + $\frac{2}{5}$ fifths = $\frac{4}{5}$ fifths

The number line shows:
 $\frac{4}{5}$ fifths - $\frac{3}{5}$ fifths = $\frac{1}{5}$ fifth

2 Write the subtraction shown by each number line.

$\frac{5}{6}$ sixths - $\frac{2}{6}$ sixths = $\frac{3}{6}$ sixths
 $\frac{9}{10}$ tenths - $\frac{7}{10}$ tenths = $\frac{2}{10}$ tenths
 $\frac{5}{8}$ eighths - $\frac{4}{8}$ eighths = $\frac{1}{8}$ eighth

3 Mark each number line and complete:

$\frac{1}{5}$ fifth + $\frac{3}{5}$ fifths = $\frac{4}{5}$ fifths
 $\frac{4}{6}$ sixths - $\frac{3}{6}$ sixths = $\frac{1}{6}$ sixth
 $\frac{3}{8}$ eighths + $\frac{2}{8}$ eighths = $\frac{5}{8}$ eighths

The total fraction coloured is
 $\frac{3}{10}$ orange + $\frac{4}{10}$ grey = $\frac{7}{10}$

4 Colour each diagram and then complete:

(a) $\frac{3}{5}$ green, $\frac{1}{5}$ red

(b) $\frac{2}{10}$ green, $\frac{7}{10}$ red

(c) $\frac{5}{8}$ green, $\frac{3}{8}$ red

$\frac{3}{5}$ fifths + $\frac{1}{5}$ fifth = $\frac{4}{5}$ fifths
 $\frac{2}{10}$ tenths + $\frac{7}{10}$ tenths = $\frac{9}{10}$ tenths
 $\frac{5}{8}$ eighths + $\frac{3}{8}$ eighths = $\frac{8}{8}$ eighths

Go back to Textbook Page 33, question 5.

Hundredths

1 Each shape is divided into hundredths. Colour the given fraction of each shape. Many other ways of colouring are possible.

$\frac{0-07}{0-07}$ $\frac{0-37}{0-37}$ $\frac{0-14}{0-14}$
 $\frac{0-95}{0-95}$ $\frac{0-36}{0-36}$ $\frac{0-65}{0-65}$
 $\frac{0-44}{0-44}$

2 Complete these sequences:

$0-01, 0-03, 0-05, 0-07, 0-09, 0-11, 0-13, 0-15, 0-17, 0-19$
 $0-36, 0-38, 0-40, 0-42, 0-44, 0-46, 0-48, 0-50, 0-52, 0-54$
 $0-70, 0-65, 0-60, 0-55, 0-50, 0-45, 0-40, 0-35, 0-30, 0-25$
 $0-39, 0-36, 0-33, 0-30, 0-27, 0-24, 0-21, 0-18, 0-15, 0-12$

3 Go to Textbook Page 41.

4 Mark with an arrow as shown: 0-23, 0-32, 0-38, 0-49, 0-54, 0-61

0-2 0-3 0-4 0-5 0-6

0-23 0-32 0-38 0-49 0-54 0-61

5 Mark with an arrow: 4-69, 4-77, 4-85, 4-96, 4-99

4-7 4-8 4-9 5-0 5-1

4-69 4-77 4-85 4-96 4-99

6 Mark with an arrow: 2-78, 2-88, 2-96, 3-04, 3-13, 3-21

2-8 2-9 3-0 3-1 3-2

2-78 2-88 2-96 3-04 3-13 3-21

7 Write greater or smaller to make these true:

$5-04$ is smaller than $5-40$ $1-23$ is smaller than $3-21$
 $5-43$ is greater than $5-34$ $2-80$ is greater than $2-08$

Do Workbook Page 12.