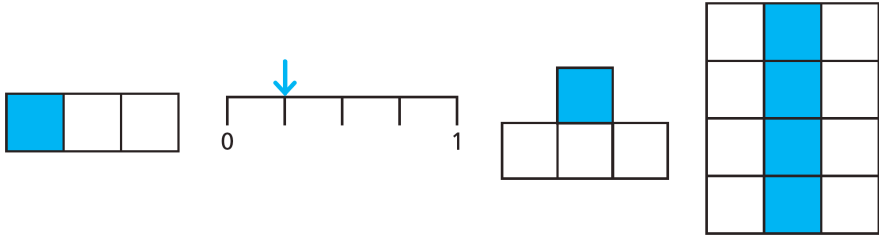
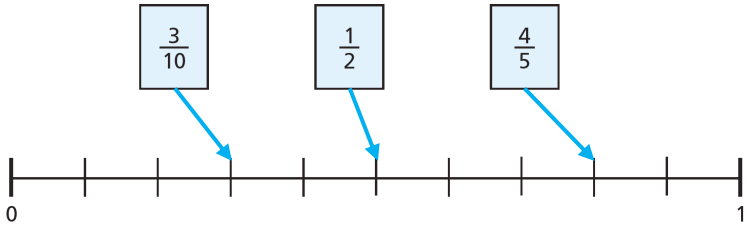
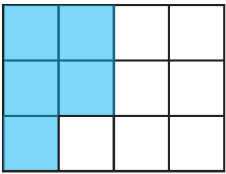
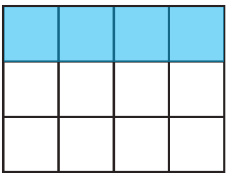
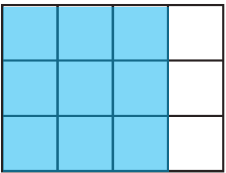
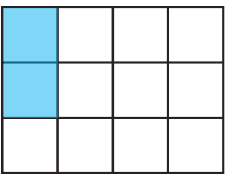
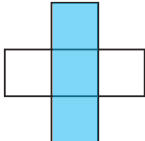
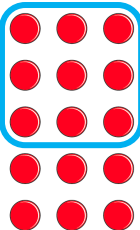
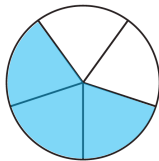

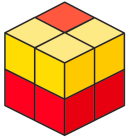


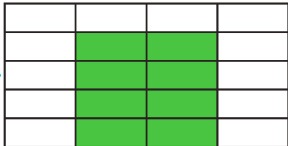
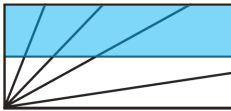

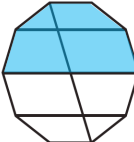
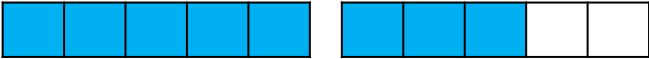

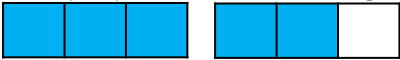
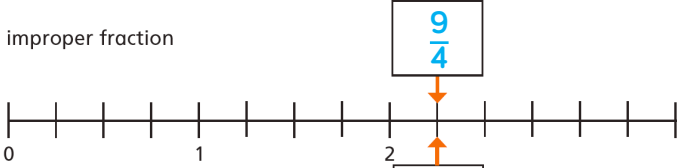
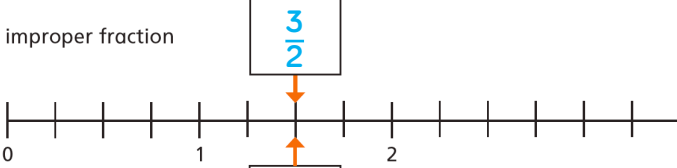


Question	Answer
1	 <p style="text-align: center;"> <input checked="" type="checkbox"/>                      <input type="checkbox"/>                      <input type="checkbox"/>                      <input checked="" type="checkbox"/> </p> <p>The number line needs to be divided into three equal parts.                  In the third diagram, either remove the top square and shade one of the other squares, or add two more squares in the top row and shade one more square.</p>
2	<p>a) <math>\frac{1}{5}</math>                  b) <math>\frac{1}{4}</math>                  c) <math>\frac{2}{5}</math>                  d) <math>\frac{3}{4}</math></p>
3	
4	<p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p>

Question	Answer
5	<p>a) </p> <p>b) </p> <p>c) </p>
6	<p>0.4 </p> <p>0.375 </p> <p><math>3 \div 10</math> </p> <p><math>4 \times \frac{1}{7}</math> </p> <p><math>\frac{1}{3}</math> </p>
7	<p>Tom He has divided the rectangle into five equal parts and shaded three of the parts. Aisha has divided her rectangle into five unequal parts.</p>
8	<p>  </p> <p>Identify a line that divides the shape into two equal parts and shade one half of the shape.</p>

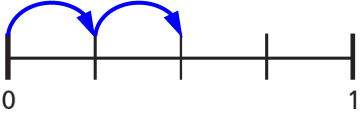
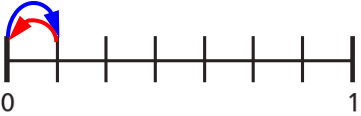
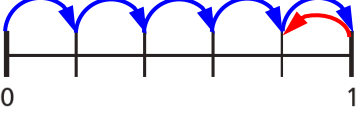
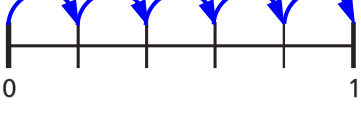
Y7 – Spring – Block 5 – Step 1 – Understand representations of fractions Answers (continued)

Question	Answer
9	a) $\frac{1}{14}$ b) $\frac{16}{49}$

Question	Answer
1	$1\frac{1}{2}$ $\frac{3}{2}$ 1.5
2	$1\frac{1}{2}$ $\frac{3}{2}$ 1.5
3	a) $2\frac{2}{3}$ $\frac{8}{3}$ $1\frac{1}{4}$ $\frac{5}{4}$ $3\frac{1}{4}$ $\frac{13}{4}$ b) multiple possible answers, e.g.:  c) $\frac{8}{5}$ d) multiple possible answers, e.g.: 
4	a) He has represented $5\frac{1}{3}$ b) multiple possible answers, e.g.:  c) $1\frac{2}{3}$
5	a) improper fraction $\frac{9}{4}$  mixed number $2\frac{1}{4}$ b) improper fraction $\frac{3}{2}$  mixed number $1\frac{1}{2}$
6	Dani has multiplied 3 by the numerator of the fraction, not the denominator. correct answer: $\frac{13}{4}$

Question	Answer
7	a) $\frac{7}{3}$ b) $\frac{17}{5}$ c) $\frac{27}{4}$ d) $\frac{29}{10}$
8	a) $3\frac{1}{2}$ b) $2\frac{1}{3}$ c) $3\frac{1}{6}$ d) $8\frac{7}{10}$
9	a) $\frac{11}{4} = 2\frac{3}{4}$ b) $\frac{19}{3} = 6\frac{1}{3}$ c) $\frac{22}{5} = 4\frac{2}{5}$ d) $\frac{37}{5} = 7\frac{4}{5}$
10	$5\frac{1}{4} = 4\frac{5}{4} = 3\frac{9}{4} = 2\frac{13}{4} = 1\frac{17}{4} = \frac{21}{4}$ As the whole number goes down by 1, the numerator goes up by 4 This is because $\frac{4}{4} = 1$

Question	Answer
1	<p>a) <math>\frac{1}{2}</math>    <math>\frac{2}{3}</math>    <math>\frac{4}{1}</math>    <math>\frac{1}{10}</math>    <math>\frac{2}{8}</math></p> <p>b) multiple possible answers, e.g.:  <math>\frac{1}{5}</math>   <math>\frac{1}{8}</math>   <math>\frac{1}{99}</math></p> <p>c) A unit fraction is a fraction where the numerator is equal to 1</p>
2	<p>a) <math>\frac{2}{3}</math></p> <p>b) <math>\frac{3}{4}</math></p> <p>c) <math>\frac{3}{5}</math></p> <p>d) <math>\frac{1}{5}</math></p>
3	<p>a) <math>\frac{2}{3}</math></p> <p>b) <math>\frac{3}{6}</math></p> <p>c) <math>\frac{4}{12}</math></p>
4	<p>a) <math>\frac{1}{3} + \frac{1}{3}</math></p> <p>b) <math>\frac{1}{7} + \frac{1}{7}</math></p> <p>c) <math>\frac{1}{7} + \frac{1}{7} + \frac{1}{7}</math></p> <p>d) <math>\frac{1}{14} + \frac{1}{14} + \frac{1}{14}</math></p> <p>e) <math>\frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14}</math></p> <p>f) <math>\frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14}</math></p>
5	<p>No.          For example, <math>\frac{1}{4} + \frac{1}{4} = \frac{1}{2}</math></p>

Question	Answer
6	<p>a) <math>\frac{1}{4} + \frac{1}{4} = \frac{2}{4}</math></p>  <p>b) <math>\frac{1}{7} - \frac{1}{7} = \frac{0}{7}</math></p>  <p>c) <math>\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} - \frac{1}{5}</math></p>  <p>d) <math>\frac{5}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}</math></p>  <p>The denominator is 5 and the addition is five unit fractions.</p>
7	<p>a) <math>\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}</math></p> <p>b) <math>\frac{2}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} - \frac{1}{5}</math></p> <p>c) <math>\frac{9}{9} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}</math></p> <p>d) <math>\frac{0}{6} = \frac{1}{6} + \frac{1}{6} - \frac{1}{6} - \frac{1}{6}</math></p>
8	<p>a) <math>\frac{4}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}</math>          You need to add <math>\frac{1}{4}</math> 4 times to make a whole.</p> <p>b) <math>\frac{6}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}</math>          You need to add <math>\frac{1}{6}</math> 6 times to make a whole.</p> <p>c) <math>\frac{20}{20} = \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20} + \frac{1}{20}</math>          You need to add <math>\frac{1}{20}</math> 20 times to make a whole.          It is time consuming to split a bar model into 20 parts, and the bar model may need to be very large to show 20 parts clearly.</p>


Question	Answer
1	a) $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$ b) $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$ c) $\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$ d) $\frac{3}{7} + \frac{3}{7} = \frac{6}{7}$ e) $\frac{2}{7} + \frac{3}{7} + \frac{1}{7} = \frac{6}{7}$ f) $\frac{5}{7} - \frac{2}{7} = \frac{3}{7}$
2	a) $\frac{7}{9}$ b) $\frac{8}{9}$ c) $\frac{9}{9} = 1$ d) $\frac{5}{13}$ e) $\frac{0}{13}$ f) $\frac{25}{25} = 1$ Parts c) and f) had the same answer, because the calculation with the numerators was equal to the denominator.
3	a) $\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$ $\frac{6}{7} = \frac{2}{7} + \frac{4}{7}$ $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$ $\frac{6}{7} = \frac{4}{7} + \frac{2}{7}$ $\frac{6}{7} - \frac{2}{7} = \frac{4}{7}$ $\frac{4}{7} = \frac{6}{7} - \frac{2}{7}$ $\frac{6}{7} - \frac{4}{7} = \frac{2}{7}$ $\frac{2}{7} = \frac{6}{7} - \frac{4}{7}$ b) $\frac{1}{7} + \frac{5}{7}$ $\frac{3}{7} + \frac{3}{7}$ $\frac{7}{7} - \frac{1}{7}$



Y7 – Spring – Block 5 – Step 4 – Add and subtract fractions with the same denominator Answers  
(continued)

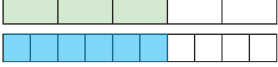



Question	Answer
4	a) Jack has used the green and yellow squares. b) Nijah has used the total number of squares and either the green or the yellow squares. c) Multiple possible answers, e.g.: $\frac{2}{15} + \frac{4}{15} = \frac{6}{15}$ $\frac{2}{15} + \frac{5}{15} = \frac{6}{15}$ $\frac{4}{15} + \frac{5}{15} = \frac{9}{15}$ $\frac{2}{15} + \frac{4}{15} + \frac{4}{15} = \frac{10}{15}$ $\frac{15}{15} - \frac{2}{15} = \frac{13}{15}$ $\frac{15}{15} - \frac{5}{15} = \frac{10}{15}$
5	a) $\frac{6}{9}$ b) $\frac{5}{12}$ c) $\frac{5}{25}$ $\frac{13}{25}$
6	$\frac{9}{30}$
7	a) $\frac{10}{10} = 1$ b) $1\frac{1}{3} = \frac{4}{3}$ c) $\frac{2}{3}$ d) $\frac{10}{10} = 1$
8	a) $x = \frac{5}{11}$ b) $y = \frac{5}{12}$

Y7 – Spring – Block 5 – Step 5 – Add and subtract fractions from integers expressing the answer as a single fraction Answers

Question	Answer
1	They are all equal to 1
2	 <p>There are 5 parts in total, and 3 parts + 2 parts = 5 parts</p>
3	a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{4}{7}$
4	a) $\frac{4}{5}$ b) $\frac{3}{5}$ c) $\frac{2}{5}$ d) $\frac{1}{5}$ e) $\frac{3}{10}$ f) $\frac{2}{11}$ g) $\frac{9}{20}$ h) $\frac{1}{8}$ Convert the 1 to a fraction with the numerator and denominator equal to the denominator of the fraction being subtracted.
5	a) $1\frac{2}{5}$ $2\frac{2}{5}$ $3\frac{2}{5}$ $7\frac{2}{5}$ b) $15\frac{1}{3}$ $15\frac{2}{3}$ 16 c) true $3 + \frac{5}{4} = 3 + 1\frac{1}{4} = 4\frac{1}{4}$


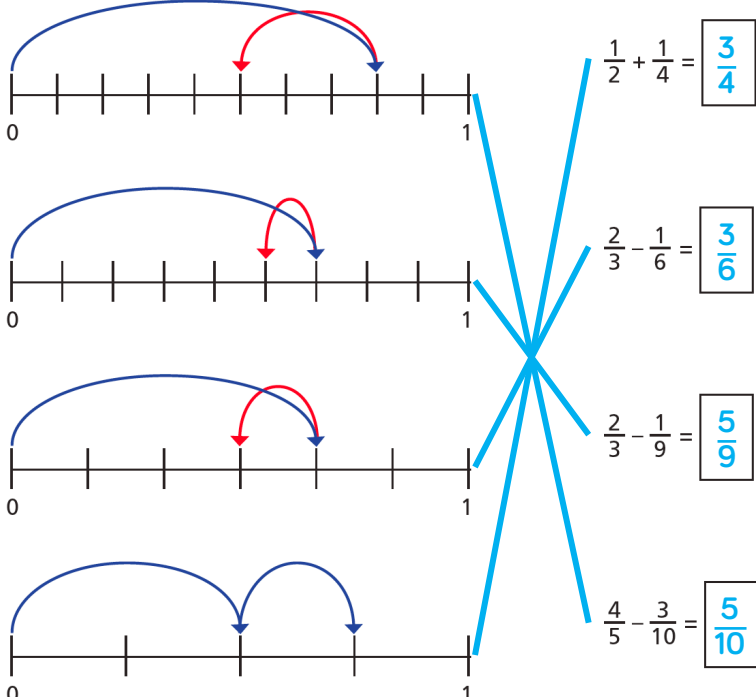
Y7 – Spring – Block 5 – Step 5 – Add and subtract fractions from integers expressing the answer as a single fraction Answers (continued)

Question	Answer
6	a) $1 + \frac{2}{3} = 2 - \frac{1}{3}$ b) $2 + \frac{1}{6} = 3 - \frac{5}{6}$ c) $11 + \frac{1}{4} = 12 - \frac{3}{4}$
7	a) Dora has subtracted just the numerator from 9 Rosie has correctly converted 9 to $\frac{99}{11}$ but then she has subtracted the denominators as well as the numerators. b) $8\frac{7}{11}$ Possible methods include: write 9 as $8 + 1$ and subtract $\frac{4}{11}$ from 1
8	a) $2\frac{3}{5}$ b) $7\frac{1}{3}$ c) $9\frac{1}{4}$ d) $6\frac{9}{19}$
9	$5\frac{1}{4}$
10	$2\frac{1}{8}$

Question	Answer
1	a) $\frac{1}{2} = \frac{5}{10}$ b) $\frac{1}{5} = \frac{2}{10}$ c) $\frac{2}{3} = \frac{6}{9}$ d) $\frac{3}{4} = \frac{6}{8}$ e) $\frac{8}{10} = \frac{4}{5}$ f) $\frac{2}{4}$ $\frac{3}{6}$ $\frac{4}{8}$ $\frac{5}{10}$ g) The denominator is twice the numerator.
2	a) = ≠ ≠ ≠ b) ≠ = ≠ =
3	a)  b)  c) 
4	multiple possible answers, e.g.: a) $\frac{2}{5}$ $\frac{8}{20}$ b) $\frac{3}{4}$ $\frac{15}{20}$
5	
6	multiple possible answers, e.g.: $\frac{3}{4}$ $\frac{6}{8}$ $\frac{18}{24}$ $\frac{75}{100}$ $\frac{360}{480}$


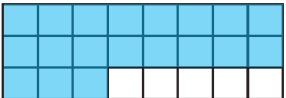

Question	Answer
7	a) $\frac{2}{3} = \frac{8}{12}$ b) $\frac{2}{9} = \frac{4}{18}$ c) $\frac{15}{40} = \frac{3}{8}$ d) $\frac{12}{24} = \frac{6}{12}$ e) $\frac{3}{4} = \frac{15}{20}$ f) $\frac{7}{3} = \frac{49}{21}$ g) $\frac{22}{55} = \frac{2}{5}$ h) $\frac{12}{30} = \frac{14}{35} = \frac{2}{5}$ i) $\frac{20}{8} = \frac{5}{2}$ j) $\frac{32}{20} = \frac{8}{5}$ k) $\frac{9}{45} = \frac{1}{5}$
8	multiple possible answers, e.g.: $\frac{12}{8} = \frac{6}{4}$ $\frac{12}{2} = \frac{24}{4}$ $\frac{12}{12} = \frac{4}{4}$ $\frac{12}{24} = \frac{2}{4}$ $\frac{12}{6} = \frac{8}{4}$ $\frac{12}{48} = \frac{1}{4}$

Y7 – Spring – Block 5 – Step 7 – Add and subtract fractions where denominators share a simple common multiple Answers

Question	Answer
1	a) 9 b) 18 c) 30 d) 60 e) 60 f) 12
2	a)  b) $\frac{5}{6}$ c) $\frac{3}{6} = \frac{1}{2}$ d) $\frac{3}{6} = \frac{1}{2}$ e) $\frac{5}{6}$
3	 <p> <math>\frac{1}{2} + \frac{1}{4} = \frac{3}{4}</math>  <math>\frac{2}{3} - \frac{1}{6} = \frac{3}{6}</math>  <math>\frac{2}{3} - \frac{1}{9} = \frac{5}{9}</math>  <math>\frac{4}{5} - \frac{3}{10} = \frac{5}{10}</math> </p> <p>                     The answer to <math>\frac{2}{3} - \frac{1}{6}</math> can be simplified to <math>\frac{1}{2}</math>                      The answer to <math>\frac{4}{5} - \frac{3}{10}</math> can be simplified to <math>\frac{1}{2}</math> </p>

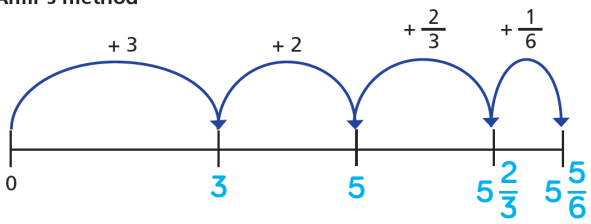
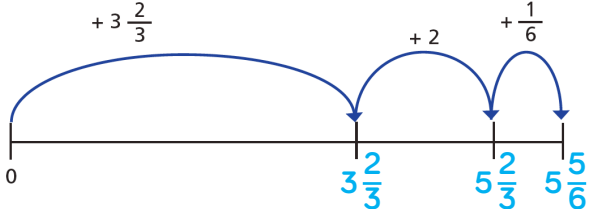
Y7 - Spring - Block 5 - Step 7 - Add and subtract fractions where denominators share a simple common multiple Answers (continued)

Question	Answer
4	a) $\frac{3}{5} + \frac{1}{20} = \frac{13}{20}$ b) $\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$ c) $\frac{2}{3} - \frac{1}{15} = \frac{3}{5}$ d) $\frac{7}{12} - \frac{1}{4} = \frac{1}{3}$
5	$\frac{1.5}{15} + \frac{1}{15}$ $\frac{1}{30} + \frac{1}{30}$ $\frac{3}{30} + \frac{2}{30}$ $\frac{3}{10} + \frac{2}{15}$
6	a) $\frac{2}{9}$ b) $\frac{11}{18}$ c) $\frac{4}{9}$ d) $\frac{11}{27}$ e) $\frac{19}{20}$ f) $\frac{11}{18}$ g) $\frac{9}{20}$ h) $\frac{17}{30}$
7	a) $\frac{17}{36}$ b) $\frac{7}{20}$
8	$x = -\frac{1}{12}$
9	a) $\frac{12}{20} - \frac{15}{30} = \frac{1}{10}$ $\frac{3}{20} + \frac{6}{30} = \frac{7}{20}$ b) smallest negative answer: $\frac{3}{20} - \frac{15}{30} = -\frac{7}{20}$

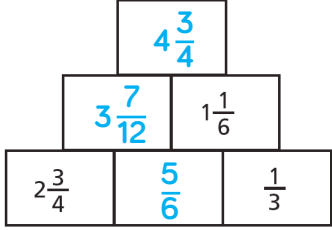
Question	Answer
1	<p>a) </p> <p>b) </p> <p>c) 24 is the lowest common multiple of 3 and 8</p>
2	 <p><math>\frac{7}{10}</math></p>
3	<p>Yes.</p> <p>He has worked out equivalent fractions for <math>\frac{1}{5}</math> and <math>\frac{5}{8}</math> with the same denominator and then added the numerators.</p>
4	<p>a) <math>\frac{3}{4}</math></p> <p>b) <math>\frac{7}{12}</math></p> <p>c) <math>\frac{11}{12}</math></p> <p>d) <math>\frac{13}{20}</math></p> <p>e) <math>\frac{11}{12}</math></p> <p>f) <math>\frac{35}{36}</math></p>
5	<p>a) <math>\frac{1}{12}</math></p> <p>b) <math>\frac{7}{30}</math></p> <p>c) <math>\frac{1}{18}</math></p> <p>d) <math>\frac{5}{24}</math></p>
6	<p>a) <math>\frac{3}{11}</math> and <math>\frac{2}{9}</math></p> <p>b) <math>\frac{5}{12}</math> and <math>\frac{2}{9}</math></p>
7	<p><math>\frac{43}{60}</math></p>
8	<p><math>\frac{11}{30}</math></p>



Question	Answer
9	<p>a) Simplify <math>\frac{14}{91}</math> to <math>\frac{2}{13}</math> The fractions now have a common denominator so can be added.</p> <p>b) Rewrite the calculation as: <math display="block">\frac{4}{7} + \frac{3}{7} - \left(\frac{2}{17} + \frac{38}{51}\right)</math> The first part is equal to 1 and the second part has a lowest common denominator of 51</p> <p>c) Add together all the positive fractions and add together all the negative fractions. Then find the difference.</p>

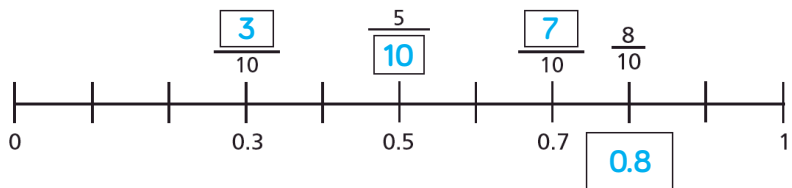
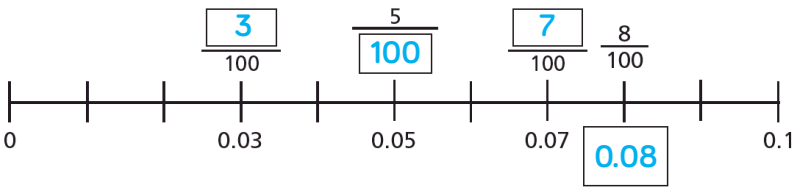
Question	Answer
1	a) $3\frac{5}{6}$ b) $4\frac{1}{6}$ c) $\frac{5}{6}$ d) Some students may have converted all the numbers to improper fractions first. Others may have worked with the whole number parts and fraction parts separately.
2	a) $\frac{39}{10}$ b) $3\frac{9}{10}$ c) Students need to justify why they prefer one method over the other.
3	<p>Amir's method</p>  <p>Eva's method</p>  <p>Students need to justify why they prefer one method over the other.</p>
4	a) $1\frac{3}{4}$ b) $2\frac{3}{4}$ c) $7\frac{3}{4}$ d) $28\frac{3}{4}$ e) $7\frac{3}{4}$ f) $10\frac{3}{4}$

Y7 – Spring – Block 5 – Step 9 – Add and subtract improper fractions and mixed numbers Answers  
(continued)

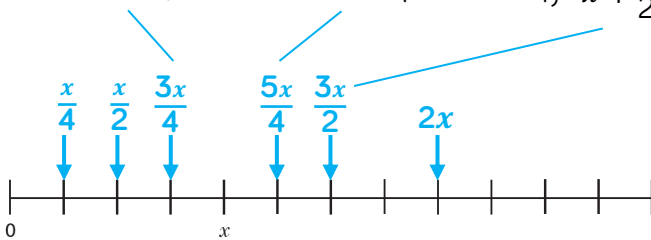
Question	Answer
5	a) $3\frac{17}{20}$ b) $\frac{7}{12}$ c) $3\frac{3}{40}$ d) $\frac{27}{40}$
6	$6\frac{2}{15}$ km
7	a) $5\frac{5}{12}$ b) $3\frac{5}{6}$
8	<div style="text-align: center;">  </div> $1\frac{1}{6} - \frac{1}{3} = \frac{5}{6}$ $2\frac{3}{4} + \frac{5}{6} = 3\frac{7}{12}$ $3\frac{7}{12} + 1\frac{1}{6} = 4\frac{3}{4}$
9	$1\frac{5}{6}$ inches

Question	Answer
1	a) $\frac{2}{8} = \frac{1}{4}$ b) $\frac{2}{4} = \frac{1}{2}$ c) $\frac{3}{4}$ d) $\frac{1}{6}$
2	a) $x = 2$ b) $x = 2\frac{1}{3}$ c) $x = 8\frac{1}{3}$ d) $x = 9\frac{1}{3}$
3	a) $1\frac{1}{4}$ b) $\frac{3}{4}$ c) $7\frac{1}{7}$
4	a) $\frac{17}{4}$ $\frac{10}{3}$ The numerator is 1 more than the square of the denominator. b) $\frac{7}{3}$ $\frac{7}{4}$ $1 + \frac{g}{h}$ is larger. This will be true for any values of $g$ and $h$ where $g > h$ . c) $\frac{8}{3}$ $\frac{9}{4}$ d) No. $g$ and $h$ could be negative. Then some of the expressions would give negative answers.
5	a) $\frac{5}{3}$ $\frac{6}{3}$ $\frac{7}{3}$ $\frac{8}{3}$ b) 1 c) 17th d) 33 e) every 3rd term $\frac{2}{3}$ $\frac{4}{3}$ $\frac{6}{3}$ $\frac{8}{3}$ $\frac{10}{3}$ $\frac{12}{3}$ When $n$ is a multiple of 3, $2n$ is also a multiple of 3 f) every term $\frac{3n}{3} = 1$ , so every term of the sequence is 1

Question	Answer
6	a) $x = \frac{1}{6}$ b) $x = \frac{23}{10} = 2\frac{3}{10}$ c) $x = -\frac{3}{7}$ d) $x = 0$

Question	Answer
1	a)  b) 0.8    0.2    1
2	a)  b) 0.08    0.02
3	a) $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ b) 0.6    0.7    0.65
4	a) 0.9 b) $\frac{11}{12}$
5	a) He has subtracted 2 hundredths instead of 2 tenths. b) 0.55
6	a) 0.1 b) 0.5 c) 0.4 d) 0.65 Students need to explain why they chose to convert fractions to decimals before or after the calculation.
7	$\frac{9}{4} - 1.5$ $2.1 - 1\frac{1}{2}$ $2.25 - \frac{3}{2}$ $2\frac{5}{20} - 1.50$
8	1, 2, 4, 5, 8 If the factors of the digits are not all 1, 2 or 5, then the fractions does not convert to a terminating decimal.

Question	Answer
1	a) $\frac{2}{3}$ $\frac{2}{29}$ $\frac{2}{15}$ $\frac{2}{x}$ b) Yes. When adding two fractions with the same denominator, the numerator is the sum of the numerators and the denominator is unchanged.
2	a) $\frac{2}{5}$ $\frac{12}{5}$ $\frac{58}{5}$ $\frac{2x}{5}$ b) $\frac{3}{4}$ $\frac{3}{10}$ $\frac{3}{58}$ $\frac{3}{2x}$
3	a) $\frac{7}{m}$ b) $\frac{7}{n}$ c) $-\frac{3}{p}$
4	a) $\frac{6}{r}$ b) 3 c) multiple possible answers, e.g.: 1, 5, -1 r can be any value less than 6
5	a) $\frac{4}{3x}$ b) $\frac{7}{5x}$ Find the lowest common denominator: a) $3x$ , b) $5x$ Work out the equivalent fractions with the common denominator and add the numerators.

Question	Answer
6	<p>d) <math>\frac{x}{2} + \frac{x}{4}</math>      e) <math>2x - \frac{3x}{4}</math>      f) <math>x + \frac{x}{2}</math></p> 
7	<p>a) 0    <math>\frac{a}{5}</math>    <math>\frac{2a}{5}</math>    <math>\frac{3a}{5}</math>    <math>\frac{4a}{5}</math>  b) 0    <math>\frac{2a}{5}</math>    <math>\frac{4a}{5}</math>    <math>\frac{6a}{5}</math>    <math>\frac{8a}{5}</math></p>
8	<p>a) <math>\frac{5x}{6}</math>  b) <math>\frac{x}{6}</math></p>
9	<p>a) <math>\frac{1}{x} + \frac{3}{x} = \frac{4}{x} = 1</math>  <math>x = 4</math>  b) <math>\frac{3}{y} + \frac{5}{y} = \frac{8}{y} = 1</math>  <math>y = 8</math>  c) <math>\frac{11}{z} - \frac{9}{2z} = \frac{22}{2z} - \frac{9}{2z} = \frac{13}{2z} = 1</math>  <math>z = \frac{13}{2} = 6.5</math></p>
10	<p><math>\frac{3}{2x} + \frac{1}{3x} = \frac{9}{6x} + \frac{2}{6x} = \frac{11}{6x}</math>  <math>\frac{1}{t} + \frac{1}{2t} + \frac{1}{3t} = \frac{6}{6t} + \frac{3}{6t} + \frac{2}{6t} = \frac{11}{6t}</math></p>