

Answers - Add and Subtract Book 1

With the Same Denominators

<p>Page 5 and 6</p> <p>Page 5. A. $\frac{2}{5} + B. \frac{1}{5} = \frac{3}{5}$</p> <p>Page 6. Q2 $\frac{2}{3}$ Q3 $\frac{2}{4}$</p>	<p>Page 7</p> <p>Q1: a) $\frac{2}{5}$ b) $\frac{2}{7}$ c) $\frac{2}{9}$</p> <p>Q2: a) $\frac{2}{6} = \frac{1}{3}$ b) $\frac{2}{8} = \frac{1}{4}$ c) $\frac{2}{10} = \frac{1}{5}$</p>
<p>Page 8</p> <p>Q1: a) $\frac{4}{5}$ b) $\frac{5}{7}$ c) $\frac{7}{9}$.</p> <p>Q2: a) $\frac{4}{5}$ b) $\frac{6}{7}$ c) $\frac{5}{9}$ d) $\frac{7}{8}$ e) $\frac{5}{8}$</p> <p>f) $\frac{7}{10}$ g) $\frac{11}{17}$ h) $\frac{15}{19}$ i) $\frac{9}{11}$ j) $\frac{11}{13}$</p>	<p>Page 9</p> <p>Q1: a) $\frac{4}{6} = \frac{2}{3}$ b) $\frac{6}{8} = \frac{3}{4}$ c) $\frac{4}{10} = \frac{2}{5}$</p> <p>Q2: a) $\frac{4}{6} = \frac{2}{3}$ b) $\frac{4}{8} = \frac{1}{2}$ c) $\frac{8}{10} = \frac{4}{5}$</p> <p>d) $\frac{3}{6} = \frac{1}{2}$ e) $\frac{6}{8} = \frac{3}{4}$ f) $\frac{6}{6} = \frac{1}{1}$ 1</p> <p>g) $\frac{8}{8} = \frac{1}{1}$ 1 h) $\frac{6}{10} = \frac{3}{5}$ i) $\frac{4}{6} = \frac{2}{3}$</p> <p>j) $\frac{2}{8} = \frac{1}{4}$</p>
<p>Page 10</p> <p>Q1: a) $\frac{6}{8}$ dotted b) $\frac{1}{8}$ dotted and crossed.</p> <p>c) $\frac{5}{8}$ dotted and uncrossed</p> <p>Q1: When you minus denominators the answer is zero.</p> <p>Q2: a) $\frac{5}{8}$ b) $\frac{1}{8}$ c) $\frac{3}{8}$.</p>	<p>Page 11</p> <p>Q1: a) iii. $\frac{6}{15} = \frac{2}{5}$ b) iii. $\frac{8}{14} = \frac{4}{7}$.</p> <p>Q2: a) $\frac{6}{12} = \frac{1}{2}$ b) $\frac{6}{12} = \frac{1}{2}$ c) $\frac{6}{12} = \frac{1}{2}$.</p>

Answers to Add and Subtract Fractions Book 1

<p>Page 12</p> <p>Q1: a) $\frac{1}{3}$ b) $\frac{4}{7}$ c) $\frac{3}{5}$</p> <p>Q2: a) $\frac{5}{7}$ b) $\frac{3}{7}$ c) $\frac{3}{5}$ d) $\frac{2}{5}$ e) $\frac{1}{5}$</p> <p style="padding-left: 40px;">f) $\frac{5}{9}$ g) $\frac{1}{9}$ h) $\frac{2}{9}$ i) $\frac{3}{8}$ j) $\frac{5}{8}$</p>	<p>Page 13</p> <p>Q1: a) $\frac{3}{6} = \frac{1}{2}$ b) $\frac{4}{8} = \frac{1}{2}$ c) $\frac{4}{10} = \frac{2}{5}$</p> <p>Q2: a) $\frac{6}{10} = \frac{3}{5}$ b) $\frac{4}{10} = \frac{2}{5}$ c) $\frac{2}{10} = \frac{1}{5}$</p> <p style="padding-left: 40px;">d) $\frac{4}{10} = \frac{2}{5}$ e) $\frac{2}{10} = \frac{1}{5}$ f) $\frac{6}{10} = \frac{3}{5}$</p> <p style="padding-left: 40px;">g) $\frac{4}{10} = \frac{2}{5}$ h) $\frac{5}{10} = \frac{1}{2}$ i) $\frac{8}{10} = \frac{4}{5}$</p> <p style="padding-left: 40px;">j) $\frac{5}{10} = \frac{1}{2}$</p>
<p>Page 14</p> <p>Q1: a) $\frac{7}{10}$ b) $\frac{4}{10} = \frac{2}{5}$ Yellow and not crossed.</p> <p>Q2: a) $\frac{7}{10}$ b) $\frac{1}{10}$ c) $\frac{7}{10}$ d) $\frac{8}{10}$ e) $\frac{7}{10}$</p> <p style="padding-left: 40px;">f) $\frac{8}{10} = \frac{4}{5}$ g) $\frac{6}{10} = \frac{3}{5}$ h) $\frac{2}{10} = \frac{1}{5}$</p> <p style="padding-left: 40px;">i) $\frac{5}{10} = \frac{1}{2}$ j) $\frac{10}{10} = \frac{1}{1} = 1$</p>	<p>Page 15</p> <p>Q1: d) $\frac{5}{12}$ e) $\frac{7}{12} + \frac{1}{12} - \frac{3}{12} = \frac{5}{12}$ f) & g) $\frac{1}{4}$ h) $\frac{1}{2}$</p> <p>Q2: a) $\frac{6}{12} = \frac{1}{2}$ b) $\frac{4}{12} = \frac{1}{3}$ c) $\frac{4}{12} = \frac{1}{3}$</p> <p style="padding-left: 40px;">d) $\frac{10}{12} = \frac{5}{6}$ e) $\frac{8}{12} = \frac{2}{3}$ f) $\frac{10}{12} = \frac{5}{6}$</p> <p style="padding-left: 40px;">g) $\frac{9}{12} = \frac{3}{4}$ h) $\frac{3}{12} = \frac{1}{4}$ i) $\frac{12}{12} = \frac{1}{1} = 1$</p> <p style="padding-left: 40px;">j) $\frac{3}{12} = \frac{1}{4}$</p>
<p>Page 16</p> <p>Q1: $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$</p> <p>Q1: a) 1 cm = 10 mm b) 1 m = 100 cm</p> <p style="padding-left: 40px;">c) 1 km = 1000 m d) half - half = 0</p> <p>Q2: a) 5 mm b) 50 cm c) 500 m d) 250 m</p> <p style="padding-left: 40px;">e) 25 cm f) 2 mm g) 20 cm h) 200 km</p> <p style="padding-left: 40px;">i) 100 m j) 1 mm</p>	<p>Page 17</p> <p>Q1: a) $\frac{2}{3}$ b) $\frac{3}{3} = 1$ c) $\frac{3}{3} = 1$ d) $\frac{2}{3}$ cm</p> <p style="padding-left: 40px;">e) $\frac{3}{3}$ m = 1 m f) $\frac{1}{3}$ km g) $\frac{2}{3}$ is bigger.</p> <p>Q2: a) $\frac{2}{4} = \frac{1}{2}$ b) $\frac{4}{4} = 1$ c) $\frac{3}{4}$</p> <p style="padding-left: 40px;">d) $\frac{2}{4}$ m = 50 cm e) $\frac{3}{4}$ km = 750 m</p> <p style="padding-left: 40px;">f) $\frac{2}{4}$ km = 500 m g) $\frac{1}{4}$ m = 25 cm</p> <p style="padding-left: 40px;">h) $\frac{1}{4}$ Small i) Half j) Three quarters</p>
<p>Page 18</p> <p>Q1: a) i. £20.00 ii. £5.00 b) i. £6.00 ii. £1.50</p> <p style="padding-left: 40px;">c) i. £15.00 ii. £7.50</p> <p>Q2: a) i. £9.00 ii. £6.00 b) i. £1.50 ii. £4.50</p> <p style="padding-left: 40px;">c) i. £10.00 ii. £20.00</p> <p>Q3: a) i. £12.00 ii. £9.00 b) i. £20.00 ii. £15.00</p> <p style="padding-left: 40px;">c) i. £2.50 ii. £7.50</p>	<p>Page 19</p> <p>Q1: a) i. £7.50 ii. £15.00 b) i. £30.00 ii. £15.00</p> <p style="padding-left: 40px;">iii. £10.00 iv. £7.50 v. half</p> <p>Q2: a) £1.20 b) 30 p c) 40 p</p>

Answers to Add and Subtract Fractions Book 1

Page 20

- Q1: a) $\frac{4}{8}$ kg = 500 g b) $\frac{2}{8}$ kg = 250 g
 c) $\frac{3}{8}$ kg = 375 g d) $\frac{6}{8}$ kg = 750 g
 e) $\frac{7}{8}$ kg = 875 g
- Q2: a) $\frac{1}{4}$ kg = 250 g b) $\frac{2}{4}$ kg = 500 g
 c) $\frac{1}{4}$ kg = 250 g d) $\frac{3}{5}$ kg = 600 g
 e) $\frac{2}{5}$ kg = 400 g

Page 21

- Q1: a) $\frac{3}{9} = \frac{1}{3}$ b) 100 g c) 300 g d) 50 p
 e) £1.00 f) £1.50
- Q2: a) $\frac{1}{4}$ b) $\frac{1}{8}$ c) $\frac{4}{8}$ d) $\frac{2}{4}$ e) $\frac{4}{8}$
 f) $\frac{3}{5}$ g) $\frac{1}{3}$ h) $\frac{4}{7}$ i) $\frac{5}{9}$ j) $\frac{6}{9}$.

Page 22

- Q1: a) 1 b) $\frac{1}{6} + \frac{5}{6} = \frac{6}{6} = 1$ c) $\frac{1}{10} + \frac{9}{10} = \frac{10}{10} = 1$
 d) $\frac{1}{12} + \frac{11}{12} = \frac{12}{12} = 1$ e) $\frac{1}{7} + \frac{6}{7} = \frac{7}{7} = 1$
 f) $\frac{1}{8} + \frac{7}{8} = \frac{8}{8} = 1$ g) $\frac{1}{9} + \frac{8}{9} = \frac{9}{9} = 1$
- Q2: a) $\frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1$ b) $\frac{3}{6} + \frac{3}{6} = \frac{6}{6} = 1$
 c) $\frac{4}{10} + \frac{6}{10} = \frac{10}{10} = 1$ d) $\frac{11}{18} + \frac{7}{18} = \frac{18}{18} = 1$
 e) $\frac{7}{12} + \frac{5}{12} = \frac{12}{12} = 1$ f) $\frac{4}{7} + \frac{3}{7} = \frac{7}{7} = 1$
 g) $\frac{3}{8} + \frac{5}{8} = \frac{8}{8} = 1$ h) $\frac{4}{9} + \frac{5}{9} = \frac{9}{9} = 1$

Page 23

- Q1: a) $1 - \frac{1}{5} = \frac{4}{5}$ b) $1 - \frac{1}{6} = \frac{5}{6}$
 c) $1 - \frac{1}{10} = \frac{9}{10}$ d) $1 - \frac{1}{12} = \frac{11}{12}$
 e) $1 - \frac{1}{14} = \frac{13}{14}$ f) $1 - \frac{1}{11} = \frac{10}{11}$
 g) $1 - \frac{1}{13} = \frac{12}{13}$ h) $1 - \frac{1}{15} = \frac{14}{15}$
- Q2: a) $1 - \frac{2}{5} = \frac{3}{5}$ b) $1 - \frac{3}{6} = \frac{3}{6}$
 c) $1 - \frac{3}{10} = \frac{7}{10}$ d) $1 - \frac{7}{12} = \frac{5}{12}$
 e) $1 - \frac{5}{14} = \frac{9}{14}$ f) $1 - \frac{7}{11} = \frac{4}{11}$
 g) $1 - \frac{5}{13} = \frac{8}{13}$ h) $1 - \frac{11}{15} = \frac{4}{15}$

Page 24

- Q2: c) $\frac{4}{7}$ d) $1 - \frac{3}{7} = \frac{4}{7}$ e) $1 - \frac{2}{7} = \frac{5}{7}$
 f) $1 - \frac{5}{7} = \frac{2}{7}$ g) $1 - \frac{6}{7} = \frac{1}{7}$
- Q3: b) $\frac{3}{10}$ d) $\frac{7}{10}$ e) $\frac{3}{10} + \frac{7}{10} = \frac{10}{10} = 1$

Page 25

- Q1: a) $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$
 $\frac{1}{5} + \frac{4}{5} = \frac{5}{5} = 1$
 $\frac{2}{10} + \frac{8}{10} + \frac{10}{10} = 1$
- Q1: b) $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$
 c) $\frac{1}{5} + \frac{4}{5} = \frac{5}{5} = 1$

Answers to Add and Subtract Fractions Book 1

Page 25

Q2: a) $1 - \frac{2}{3} = \frac{1}{3}$ b) $1 - \frac{1}{4} = \frac{3}{4}$ c) $1 - \frac{3}{8} = \frac{5}{8}$ d) $1 - \frac{1}{10} = \frac{9}{10}$ e) $\frac{1}{5}$

Page 26

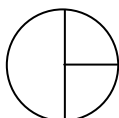
Q1: a) Plant C $\frac{3}{6}$

b) Plant A $\frac{4}{24}$ Plant B $\frac{8}{24}$ Plant C $\frac{12}{24}$

Q2: a) $\frac{1}{3}$ For each portion



Q2: b) $\frac{1}{2}$ Dessert $\frac{1}{4}$ Juice $\frac{1}{4}$ Fruit salad



Page 27

	Hours asleep	Fraction asleep		Fraction awake	Hours awake	Total One day
a.	6 hrs	$\frac{1}{4}$	+	$\frac{3}{4}$	18 hrs	24 hrs
b.	8 hrs	$\frac{1}{3}$	+	$\frac{2}{3}$	16 hrs	24 hrs
c.	12 hrs	$\frac{1}{2}$	+	$\frac{1}{2}$	12 hrs	24 hrs
d.	8 hrs	$\frac{2}{6}$	+	$\frac{4}{6}$	16 hrs	24 hrs
e.	6 hrs	$\frac{2}{8}$	+	$\frac{6}{8}$	18 hrs	24 hrs
f.	12 hrs	$\frac{3}{6}$	+	$\frac{3}{6}$	12 hrs	24 hrs
g.	16 hrs	$\frac{4}{6}$	+	$\frac{2}{6}$	8 hrs	24 hrs
h.	18 hrs	$\frac{3}{4}$	+	$\frac{1}{4}$	6 hrs	24 hrs
i.	16 hrs	$\frac{2}{3}$	+	$\frac{1}{3}$	8 hrs	24 hrs
j.	18 hrs	$\frac{6}{8}$	+	$\frac{2}{8}$	6 hrs	24 hrs
k. a = e b = d c = f g = i h = j						

Q2: a) 4 days b) 5 days c) 3 days

Page 28

Q1: a) i) $\frac{8}{18} = \frac{4}{9}$ girls ii) $\frac{10}{18} = \frac{5}{9}$ boys

b) i) S = 4 T = 2 M = 3 vowel = 5

b) ii) S = $\frac{4}{18} = \frac{2}{9}$ T = $\frac{2}{18} = \frac{1}{9}$

M = $\frac{3}{18} = \frac{1}{6}$ vowel = $\frac{5}{18}$

Q2: Own answer.

Page 29

Q1: a) Half a litre or 500 ml. b) 60 pence.

Q2: b) 500 ml d) $\frac{1}{2}$ litre e) 500 ml

Q3: a) $\frac{2}{5}$ litre b) $\frac{3}{5}$ litre c) 400 ml

Page 30

Q1: a) i. $\frac{1}{2}$ ii. $\frac{1}{4}$ iii. $\frac{1}{3}$ iv. $\frac{2}{3}$ v. $\frac{3}{4}$

b) i. $\frac{1}{2}$ ii. $\frac{3}{4}$ iii. $\frac{2}{3}$ iv. $\frac{1}{3}$ v. $\frac{1}{4}$

Q2: a) 75 cm b) 45 cm c) 25 cm, d) 60 cm

Page 31