

Answers - Add and Subtract Book 2

With Different Denominators

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x	2	3	4	5	6
1	2	3	4	5	6
2	4	6	8	10	12
3	6	9	12	15	18
4	8	12	16	20	24
5	10	15	20	25	30
6	12	18	24	30	36

x	2	3	4	5	6
7	14	21	28	35	42
8	16	24	32	40	48
9	18	27	36	45	54
10	20	30	40	50	60
11	22	33	44	55	66
12	24	36	48	60	72

x	7	8	9	10	11
1	7	8	9	10	11
2	14	16	18	20	22
3	21	24	27	30	33
4	28	32	36	40	44
5	35	40	45	50	55
6	42	48	54	60	66

x	7	8	9	10	11
7	49	56	63	70	77
8	56	64	72	80	88
9	63	72	81	90	99
10	70	80	90	100	110
11	77	88	99	110	121
12	84	96	108	120	132

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- Q1: a. 6, 12, 18, 24 f. 4, 8, 12, 16
 b. 6, 12, 18, 24 g. 10, 20, 30, 40
 c. 12, 24, 36, 48 h. 20, 40, 60, 80
 d. 12, 24, 36, 48 i. 8, 16, 24, 32
 e. 6, 12, 18, 24 j. 15, 30, 45, 60
- Q2: a. 12, 24, 36, 48 e. 6, 12, 18, 24
 b. 8, 16, 24, 32 f. 12, 24, 36, 48
 c. 18, 36, 54, 72 g. 10, 20, 30, 40
 d. 24, 48, 72, 96 h. 24, 48, 72, 96
- Q3: a. 1, 2, 4 e. 1, 2, 3, 6
 b. 1, 2, 4, 8 f. 1, 2, 3, 4, 6, 12
 c. 1, 2, 5, 10 g. 1, 2, 3, 6, 9, 18
 d. 1, 2, 4, 5, 10, 20 h. 1, 2, 3, 4, 6, 8, 12, 24

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Q1: $\frac{5}{6}$

Q2: $\frac{1}{6}$

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Q1: $\frac{5}{10} + \frac{2}{10} = \frac{7}{10}$

Q2: $\frac{5}{10} - \frac{2}{10} = \frac{3}{10}$

Page 8

Q1: $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

Q2: $\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$

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Q1: $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$

Q2: $\frac{3}{6} - \frac{1}{6} = \frac{2}{6}$

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<p>Page 10</p> <p>Q1: a. $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ b. $\frac{4}{12} - \frac{3}{12} = \frac{1}{12}$</p> <p>Q2: $\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$</p>	<p>Page 11</p> <p>Q1: a. $\frac{5}{15} + \frac{3}{15} = \frac{8}{15}$ b. $\frac{5}{15} - \frac{3}{15} = \frac{2}{15}$</p> <p>Q2: $\frac{12}{15} - \frac{10}{15} = \frac{2}{15}$</p>
<p>Page 12</p> <p>Q1: a. $\frac{15}{20} + \frac{4}{20} = \frac{19}{20}$ b. $\frac{15}{20} - \frac{4}{20} = \frac{11}{20}$</p> <p>Q2: $\frac{16}{20} - \frac{15}{20} = \frac{1}{20}$</p>	<p>Page 13</p> <p>Q1: a. $\frac{3}{12} - \frac{2}{12} = \frac{1}{12}$ b. $\frac{10}{12} - \frac{9}{12} = \frac{1}{12}$</p> <p>Q2: $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$</p>
<p>Page 14</p> <p>Q1: a. $\frac{8}{14} - \frac{7}{14} = \frac{1}{14}$ b. $\frac{7}{14} + \frac{2}{14} = \frac{9}{14}$</p> <p>Q2: $\frac{6}{21} + \frac{7}{21} = \frac{13}{21}$</p>	<p>Page 15</p> <p>Q1: a. $\frac{15}{24} - \frac{8}{24} = \frac{7}{24}$ b. $\frac{9}{24} - \frac{4}{24} = \frac{5}{24}$</p> <p>Q2: $\frac{15}{18} - \frac{2}{18} = \frac{13}{18}$</p>
<p>Page 16</p> <p>Q1: a. $\frac{7}{9} - \frac{6}{9} = \frac{1}{9}$ b. $\frac{6}{14} + \frac{3}{14} = \frac{9}{14}$</p> <p>Q2: $\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$</p>	<p>Page 17</p> <p>Q1: a. $\frac{15}{40} + \frac{16}{40} = \frac{31}{40}$ b. $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$</p> <p>Q2: $\frac{5}{30} + \frac{12}{30} = \frac{17}{30}$</p>
<p>Page 18</p> <p>Q1: a. $\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$ Q2: $\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$</p> <p>Q3: $\frac{9}{36} + \frac{8}{36} = \frac{17}{36}$</p>	<p>Page 19</p> <p>Q1: a. $\frac{3}{8} - \frac{2}{8} = \frac{1}{8}$ Q2: $\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$</p> <p>Q3: $\frac{3}{18} + \frac{4}{18} = \frac{7}{18}$</p>
<p>Page 20</p> <p>Q1: a. $\frac{3}{4}$ b. $\frac{1}{4}$ c. $\frac{1}{4}$</p> <p> d. $\frac{3}{4}$ cm = 75 mm e. $\frac{1}{4}$ m = 25 cm</p> <p> f. $\frac{3}{4}$ km = 750 m g. $\frac{1}{4}$ m = 25 cm</p> <p>Q2: a. $\frac{3}{4}$ m = 75 cm b. $\frac{4}{8} = \frac{1}{2}$ cm = 5 mm;</p> <p> c. 0 d. $\frac{3}{8}$ km = 375 m e. $\frac{3}{8}$ km = 375 m</p> <p> f. 25 cm - 20 cm = 5 cm</p>	<p>Page 21</p> <p>Q1: a. $\frac{3}{6} = \frac{1}{2}$ b. $\frac{6}{6} = 1$ c. $\frac{6}{6} = 1$</p> <p> d. $\frac{1}{6}$ cm e. $\frac{5}{6}$ m f. $\frac{3}{6} = \frac{1}{2}$ km</p> <p> g. iii. Is incorrect.</p> <p>Q2: a. $\frac{1}{3} + \frac{3}{8} = \frac{8}{24} + \frac{9}{24} = \frac{17}{24}$</p> <p> b. $\frac{1}{4} + \frac{1}{6} = \frac{3}{12} + \frac{2}{12} = \frac{5}{12}$</p> <p> c. $\frac{17}{24}$ & $\frac{5}{12} = \frac{17}{24}$ & $\frac{10}{24}$ Friend walked shorter distance.</p>

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Q1: a. $1 - \frac{3}{8} = \frac{5}{8}$ b. $1 - \frac{1}{2} = \frac{1}{2}$

c. $1 - \frac{5}{8} = \frac{3}{8}$

Q2: a. 40 p b. 10 p c. 16 p

d. $\frac{13}{20}$ e. $1 - \frac{13}{20} = \frac{7}{20}$

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Q1: a. $\frac{1}{3}$ b. $\frac{5}{9}$ c. $\frac{7}{10}$

Q2: a. $\frac{11}{15}$ b. $\frac{11}{15} \times \text{£}30.00 = \text{£}22.00$

c. $\frac{4}{15}$ d. $\frac{4}{15} \times \text{£}30.00 = \text{£}8.00$

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Q1: a. $\frac{5}{8}$ kg = 625 g b. $\frac{1}{2}$ kg = 500 g

c. $\frac{5}{8}$ kg = 625 g d. 1 kg = 1000 g

e. 1 kg = 1000 g

Q2: a. $\frac{3}{8}$ kg = 375 g b. $\frac{1}{2}$ kg = 500 g

c. $\frac{3}{8}$ kg = 375 g d. $\frac{3}{8}$ kg = 375 g e. 0

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Q1: a. $\frac{4}{9}$ Cake left b. $\frac{1}{9} \times \text{£}18.00 = \text{£}2.00$

c. $4 \times 2 = \text{£}8.00$

d. i. $\frac{1}{9} \times 900 = 100$ g ii. $\frac{4}{9} \times 900 = 400$ g

Q2: a. $\frac{1}{4}$ b. $\frac{1}{8}$ c. $\frac{1}{8}$ d. $\frac{1}{4}$ e. $\frac{3}{8}$

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Q1: a. $\frac{1}{4}$ b. $\frac{7}{8}$ c. $\frac{3}{6}$ d. $\frac{10}{10}$ e. $\frac{1}{8}$

f. $\frac{3}{4}$ g. $\frac{5}{8}$ h. $\frac{1}{6}$ i. $\frac{6}{10}$ j. $\frac{5}{8}$

Q2: a. $\frac{9}{10}$ litres b. 900 ml c. $\frac{1}{10}$ l is empty

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Q1: a. $\frac{4}{5} - \frac{1}{2} = \frac{8}{10} - \frac{5}{10} = \frac{3}{10}$ Container A

b. $\frac{7}{8} - \frac{1}{2} = \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$ Container B

c. $\frac{3}{10}$ l = 300 ml $\frac{3}{8}$ l = 375 ml. Container B

Q2: a. $\frac{2}{8} + \frac{1}{4} = \frac{2}{8} + \frac{2}{8} = \frac{4}{8}$

b. $\frac{4}{8} + \frac{2}{8} = \frac{4}{8} + \frac{2}{8} = \frac{6}{8}$ c. $1 - \frac{6}{8} = \frac{2}{8}$

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Q1: a. $\frac{6}{12} + \frac{4}{12} + \frac{2}{12} = \frac{12}{12} = 1$

b. $\frac{6}{18} + \frac{3}{18} + \frac{2}{18} = \frac{11}{18}$ c. $\frac{4}{8} + \frac{2}{8} + \frac{1}{8} = \frac{7}{8}$

d. $\frac{5}{10} + \frac{2}{10} + \frac{1}{10} = \frac{8}{10}$ e. $\frac{6}{12} + \frac{4}{12} + \frac{3}{12} = \frac{13}{12}$

Q2: b. $\frac{2}{10}$ Blue balloons d) $\frac{5}{10}$ Red balloons

e. $\frac{3}{10}$ White balloons f) $\frac{2}{10} + \frac{5}{10} + \frac{3}{10} = \frac{10}{10}$

g. $\frac{1}{4} + \frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{1}{4} + \frac{2}{4} = \frac{4}{4} = 1$

h. $\frac{1}{4} + \frac{1}{4} + \frac{4}{8} = \frac{2}{4} + \frac{1}{8} + \frac{1}{8} = \frac{4}{8} = 1$

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Q1: a. $\frac{13}{20}$ b. $\frac{7}{20}$

d. i. 5 ii. 8 and iii. 7 Squares.

Q2: $\frac{1}{2} + \frac{1}{5} = \frac{5}{10} + \frac{2}{10} = \frac{7}{10}$

$1 - \frac{7}{10} = \frac{3}{10}$ Strawberry flavoured.

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Q1: a. $\frac{2}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} = 1$

b. $\frac{2}{6} + \frac{4}{6} + \frac{2}{6} = \frac{8}{6}$ c. $\frac{4}{8} + \frac{2}{8} + \frac{2}{8} = \frac{8}{8} = 1$

d. $\frac{5}{10} + \frac{2}{10} + \frac{3}{10} = \frac{10}{10} = 1$ e. $\frac{5}{10} + \frac{4}{10} + \frac{1}{10} = \frac{10}{10} = 1$

Q2: a. $\frac{1}{2}$ b. $\frac{1}{4}$ c. $\frac{2}{8}$ d. $\frac{3}{4}$ e. $\frac{1}{4}$.

f. $\frac{3}{5}$ g. $\frac{2}{6}$ h. $\frac{1}{4}$ i. $\frac{3}{8}$ j. $\frac{1}{8}$ k. $\frac{2}{6}$

l. $\frac{1}{6}$ m. $\frac{2}{9}$ n. $\frac{3}{4}$

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Q1: a. $\frac{1}{4} + \frac{3}{8} + \frac{1}{8} = \frac{2}{8} + \frac{3}{8} + \frac{2}{8} = \frac{7}{8}$

b. $1 - \frac{7}{8} = \frac{1}{8}$

Q2: $\frac{1}{8}$ of 72 = 9 apples in the box.

$\frac{5}{8}$ of 72 = 45 apples in a colander.

$\frac{1}{4}$ of 72 = 18 apples on the grass.

$\frac{1}{3}$ of 45 = 15 apples to give your friend.

$1 - \frac{1}{3} = \frac{2}{3}$, $45 - 15 = 30$ apples left.

$\frac{1}{3}$ of 30 = 10 apples are used for juice.

20 remaining in the colander.