

UNIT 20 *Arithmetic: Fractions***Extra Exercises 20.1**

1. Calculate:

- | | | |
|------------------|--------------------|-------------------|
| (a) $142 + 96$ | (b) $237 - 129$ | (c) $3.7 + 2.01$ |
| (d) $5.6 - 3.2$ | (e) $4.9 - 1.05$ | (f) $8.2 + 6.203$ |
| (g) $0.9 - 0.22$ | (h) $0.92 + 0.871$ | (i) $3.2 - 1.52$ |

2. Calculate:

- | | | |
|----------------------|----------------------|-----------------------|
| (a) 8×7 | (b) 12×5 | (c) 6×24 |
| (d) 1.2×6 | (e) 3.7×5 | (f) 9.2×4 |
| (g) 2.4×1.2 | (h) 3.6×1.4 | (i) 2.4×3.01 |

3. Calculate:

- | | | |
|-------------------|--------------------|-------------------|
| (a) $124 \div 2$ | (b) $84 \div 4$ | (c) $165 \div 5$ |
| (d) $468 \div 3$ | (e) $2.4 \div 6$ | (f) $8.4 \div 7$ |
| (g) $15.6 \div 6$ | (h) $13.53 \div 3$ | (i) $37.8 \div 9$ |

4. Packets of football stickers cost 32p each. How much would 8 packets cost?

5. 4 kg of sweets are shared out equally between 5 children. How many kg of sweets does each child have?

UNIT 20 *Arithmetic: Fractions***Extra Exercises 20.2**

1. Calculate:

(a) $\frac{3}{5} + \frac{1}{5}$

(b) $\frac{4}{7} + \frac{2}{7}$

(c) $\frac{2}{9} + \frac{5}{9}$

(d) $\frac{9}{10} - \frac{3}{10}$

(e) $\frac{4}{5} - \frac{2}{5}$

(f) $\frac{7}{9} - \frac{2}{9}$

(g) $\frac{8}{11} - \frac{5}{11}$

(h) $\frac{4}{11} + \frac{7}{11}$

(i) $\frac{6}{13} - \frac{2}{13}$

2. Calculate:

(a) $\frac{1}{2} + \frac{1}{4}$

(b) $\frac{3}{10} + \frac{2}{5}$

(c) $\frac{3}{4} + \frac{1}{8}$

(d) $\frac{3}{4} + \frac{2}{5}$

(e) $\frac{1}{3} + \frac{1}{7}$

(f) $\frac{1}{3} + \frac{1}{6}$

(g) $\frac{1}{3} - \frac{1}{7}$

(h) $\frac{5}{6} - \frac{1}{2}$

(i) $\frac{5}{8} - \frac{1}{4}$

3. Calculate:

(a) $1\frac{1}{2} + \frac{3}{4}$

(b) $2\frac{1}{3} + 1\frac{1}{2}$

(c) $1\frac{1}{4} - \frac{2}{3}$

(d) $3\frac{1}{2} - 1\frac{1}{4}$

(e) $5\frac{1}{2} - 3\frac{2}{3}$

(f) $1\frac{1}{4} - \frac{2}{5}$

4. Laura eats $\frac{1}{5}$ of a cake. Her sister Claire eats $\frac{1}{4}$ of the cake. What fraction of the cake is left?

UNIT 20 *Arithmetic: Fractions***Extra Exercises 20.3**

1. Calculate:

(a) $\frac{1}{2} \times 18$

(b) $\frac{1}{4} \times 24$

(c) $\frac{1}{6} \times 30$

(d) $\frac{2}{3} \times 60$

(e) $\frac{3}{4} \times 20$

(f) $\frac{4}{5} \times 30$

(g) $\frac{5}{9} \times 36$

(h) $\frac{4}{7} \times 28$

(i) $\frac{3}{7} \times 21$

2. Calculate:

(a) $\frac{1}{4} \times \frac{1}{5}$

(b) $\frac{1}{2} \times \frac{2}{3}$

(c) $\frac{3}{4} \times \frac{4}{5}$

(d) $\frac{1}{7} \times \frac{3}{5}$

(e) $\frac{2}{3} \times \frac{2}{5}$

(f) $\frac{3}{8} \times \frac{4}{5}$

(g) $\frac{4}{7} \times \frac{3}{8}$

(h) $\frac{1}{6} \times \frac{2}{3}$

(i) $\frac{5}{6} \times \frac{3}{4}$

3. Calculate:

(a) $1\frac{1}{2} \times \frac{1}{2}$

(b) $1\frac{3}{4} \times \frac{2}{3}$

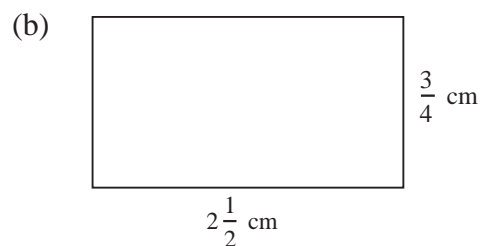
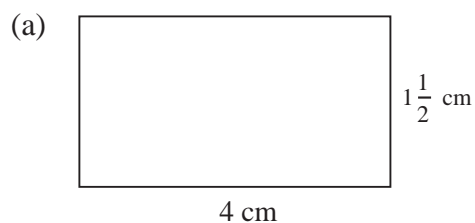
(c) $4\frac{1}{5} \times \frac{1}{3}$

(d) $4\frac{1}{2} \times \frac{1}{5}$

(e) $3\frac{1}{8} \times \frac{3}{5}$

(f) $1\frac{1}{2} \times 3\frac{1}{2}$

4. Write down the area of each of these rectangles:



UNIT 20 *Arithmetic: Fractions***Extra Exercises 20.4**

1. Calculate:

(a) $3 \div \frac{1}{2}$

(b) $8 \div \frac{1}{4}$

(c) $9 \div \frac{1}{5}$

(d) $\frac{1}{4} \div 2$

(e) $\frac{3}{5} \div 6$

(f) $\frac{5}{8} \div 5$

(g) $\frac{3}{8} \div 4$

(h) $1\frac{1}{2} \div 4$

(i) $3\frac{1}{4} \div 13$

2. Calculate:

(a) $\frac{1}{6} \div \frac{1}{3}$

(b) $\frac{4}{5} \div \frac{1}{8}$

(c) $\frac{5}{9} \div \frac{7}{9}$

(d) $\frac{3}{4} \div \frac{1}{8}$

(e) $\frac{1}{7} \div \frac{4}{5}$

(f) $\frac{2}{9} \div \frac{1}{8}$

(g) $\frac{3}{4} \div \frac{4}{3}$

(h) $\frac{5}{8} \div \frac{3}{4}$

(i) $\frac{3}{7} \div \frac{3}{4}$

3. Calculate:

(a) $1\frac{1}{2} \div \frac{3}{4}$

(b) $2\frac{1}{2} \div \frac{5}{7}$

(c) $4\frac{1}{2} \div 1\frac{1}{2}$

(d) $6\frac{1}{4} \div 1\frac{1}{2}$

(e) $3\frac{1}{2} \div 1\frac{2}{3}$

(f) $5\frac{1}{4} \div 1\frac{1}{3}$

4. A car uses $\frac{3}{5}$ litres of fuel for every kilometre it travels. How far can it travel if it uses:

(a) 3 litres of fuel

(b) $2\frac{1}{2}$ litres of fuel ?

Extra Exercises 20.1

Answers

1. (a) 238 (b) 108 (c) 5.71 (d) 2.4 (e) 3.85
 (f) 14.403 (g) 0.68 (h) 1.791 (i) 1.68
2. (a) 56 (b) 60 (c) 144 (d) 7.2 (e) 18.5
 (f) 36.8 (g) 2.88 (h) 5.04 (i) 7.224
3. (a) 62 (b) 21 (c) 33 (d) 156 (e) 0.4
 (f) 1.2 (g) 2.6 (h) 4.51 (i) 4.2
4. £2.56
5. 0.8 kg

Extra Exercises 20.2

Answers

1. (a) $\frac{4}{5}$ (b) $\frac{6}{7}$ (c) $\frac{7}{9}$ (d) $\frac{6}{10} = \frac{3}{5}$ (e) $\frac{2}{5}$
 (f) $\frac{5}{9}$ (g) $\frac{3}{11}$ (h) $\frac{11}{11} = 1$ (i) $\frac{4}{13}$
2. (a) $\frac{3}{4}$ (b) $\frac{7}{10}$ (c) $\frac{7}{8}$ (d) $\frac{23}{20} = 1\frac{3}{20}$ (e) $\frac{10}{21}$
 (f) $\frac{3}{6} = \frac{1}{2}$ (g) $\frac{4}{21}$ (h) $\frac{2}{6} = \frac{1}{3}$ (i) $\frac{3}{8}$
3. (a) $2\frac{1}{4}$ (b) $3\frac{5}{6}$ (c) $\frac{7}{12}$
 (d) $2\frac{1}{4}$ (e) $\frac{11}{6} = 1\frac{5}{6}$ (f) $\frac{17}{20}$
4. $\frac{11}{20}$

Extra Exercises 20.3

Answers

-
1. (a) 9 (b) 6 (c) 5 (d) 40 (e) 15
 (f) 24 (g) 20 (h) 16 (i) 9
2. (a) $\frac{1}{20}$ (b) $\frac{2}{6} = \frac{1}{3}$ (c) $\frac{12}{20} = \frac{3}{5}$
 (d) $\frac{3}{35}$ (e) $\frac{4}{15}$ (f) $\frac{12}{40} = \frac{3}{10}$
 (g) $\frac{12}{56} = \frac{3}{14}$ (h) $\frac{2}{18} = \frac{1}{9}$ (i) $\frac{15}{24} = \frac{5}{8}$
3. (a) $\frac{3}{4}$ (b) $\frac{7}{6} = 1\frac{1}{6}$ (c) $\frac{7}{5} = 1\frac{2}{5}$
 (d) $\frac{9}{10}$ (e) $\frac{15}{8} = 1\frac{7}{8}$ (f) $\frac{21}{4} = 5\frac{1}{4}$
4. (a) 6 (b) $\frac{15}{8} = 1\frac{7}{8}$

Extra Exercises 20.4

Answers

-
1. (a) 6 (b) 32 (c) 45 (d) $\frac{1}{8}$ (e) $\frac{1}{10}$
 (f) $\frac{1}{8}$ (g) $\frac{3}{32}$ (h) $\frac{3}{8}$ (i) $\frac{1}{4}$
2. (a) $\frac{3}{6} = \frac{1}{2}$ (b) $\frac{32}{5} = 6\frac{2}{5}$ (c) $\frac{5}{7}$ (d) 6 (e) $\frac{5}{28}$
 (f) $\frac{16}{9} = 1\frac{7}{9}$ (g) $\frac{9}{16}$ (h) $\frac{5}{6}$ (i) $\frac{4}{7}$
3. (a) 2 (b) $\frac{7}{2} = 3\frac{1}{2}$ (c) 3
 (d) $\frac{25}{6} = 4\frac{1}{6}$ (e) $\frac{21}{10} = 2\frac{1}{10}$ (f) $\frac{63}{16} = 3\frac{15}{16}$
4. (a) 5 km (b) $\frac{25}{6} = 4\frac{1}{6}$ km