Working with Mixed Numbers

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Convert into improper fractions:

(b)
$$3\frac{4}{7}$$

(d)
$$4\frac{2}{13}$$

(e)
$$7\frac{7}{10}$$

$$2\frac{5}{2}$$

Convert into mixed numbers:

(a)
$$\frac{8}{3}$$

(b)
$$\frac{25}{4}$$

(c)
$$\frac{31}{6}$$

(d)
$$\frac{18}{7}$$

(e)
$$\frac{92}{9}$$

(f)
$$\frac{59}{11}$$

Calculate, giving your answers in their simplest form:

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

(b)
$$2\frac{3}{5} \times 1\frac{5}{4}$$

(c)
$$3\frac{1}{2} \times \frac{2}{5}$$

(a)
$$1\frac{2}{3} \times 2\frac{1}{5}$$
 (b) $2\frac{3}{5} \times 1\frac{5}{6}$ (c) $3\frac{1}{2} \times \frac{2}{5}$ (d) $2\frac{1}{4} \times 3\frac{3}{10}$ (e) $\frac{1}{8} \div 1\frac{1}{2}$ (f) $2\frac{1}{4} \div \frac{1}{2}$

(e)
$$\frac{1}{8} \div 1\frac{1}{2}$$

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

(g)
$$3\frac{2}{5} \div 1\frac{3}{4}$$
 (h) $2\frac{5}{6} \div 1\frac{2}{3}$

(h)
$$2\frac{5}{6} \div 1\frac{2}{3}$$

Calculate, giving your answers in their simplest form:

$$1\frac{3}{5} + \frac{2}{5}$$

(b)
$$2\frac{6}{7} + 2\frac{1}{2}$$

(c)
$$5\frac{2}{3} - 2\frac{1}{6}$$

(d)
$$4\frac{1}{4} - \frac{5}{6}$$

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

(a)
$$1\frac{3}{5} + \frac{2}{5}$$
 (b) $2\frac{6}{7} + 2\frac{1}{7}$ (c) $5\frac{2}{3} - 2\frac{1}{6}$ (d) $4\frac{1}{4} - \frac{5}{6}$ (e) $2\frac{3}{7} + 3\frac{1}{4}$ (f) $5\frac{2}{3} - 1\frac{4}{7}$ (g) $2\frac{10}{11} + \frac{1}{2}$ (h) $6\frac{2}{5} - 2\frac{5}{6}$ (i) $5\frac{1}{2} - 4\frac{1}{3}$ (j) $4\frac{2}{3} + 2\frac{1}{5}$

(h)
$$6^{\frac{2}{3}} - 2^{\frac{5}{3}}$$

(i)
$$5\frac{1}{2}-4\frac{1}{3}$$

(j)
$$4\frac{2}{3}+2$$

A machine takes $2\frac{3}{5}$ minutes to make a microchip. How long will it take to produce 20 microchips?

Calculate the area and perimeter of a rectangle of length $4\frac{2}{5}$ cm and width $2\frac{1}{4}$ cm. Convert into improper fractions:

(e)
$$7\frac{7}{10}$$

Convert into mixed numbers:

(a)
$$\frac{8}{3}$$

(b)
$$\frac{25}{4}$$

(c)
$$\frac{31}{6}$$

(d)
$$\frac{18}{7}$$

(e)
$$\frac{92}{9}$$

(f)
$$\frac{59}{11}$$

Calculate, giving your answers in their simplest form:

(a)
$$1\frac{2}{3} \times 2\frac{1}{5}$$

(b)
$$2\frac{3}{5} \times 1\frac{5}{6}$$

(c)
$$3\frac{1}{2} \times \frac{2}{5}$$

(a)
$$1\frac{2}{3} \times 2\frac{1}{5}$$
 (b) $2\frac{3}{5} \times 1\frac{5}{6}$ (c) $3\frac{1}{2} \times \frac{2}{5}$ (d) $2\frac{1}{4} \times 3\frac{3}{10}$ (e) $\frac{1}{8} \div 1\frac{1}{2}$ (f) $2\frac{1}{4} \div \frac{1}{2}$ (g) $3\frac{2}{5} \div 1\frac{3}{4}$ (h) $2\frac{5}{6} \div 1\frac{2}{3}$

(e)
$$\frac{1}{8} \div 1\frac{1}{2}$$

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

(g)
$$3\frac{2}{5} \div 1\frac{3}{4}$$

(h)
$$2\frac{5}{6} \div 1\frac{2}{3}$$

Calculate, giving your answers in their simplest form:

(a)
$$1\frac{3}{5} + \frac{2}{5}$$

(b)
$$2\frac{6}{7} + 2\frac{1}{7}$$

(c)
$$5\frac{2}{3}-2\frac{1}{6}$$

$$4\frac{1}{4} - \frac{5}{6}$$

(e)
$$2\frac{3}{7} + 3\frac{1}{4}$$

(f)
$$5\frac{2}{3}-1\frac{4}{5}$$

(g)
$$2\frac{10}{11} + \frac{1}{2}$$

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

(a)
$$1\frac{3}{5} + \frac{2}{5}$$
 (b) $2\frac{6}{7} + 2\frac{1}{7}$ (c) $5\frac{2}{3} - 2\frac{1}{6}$ (d) $4\frac{1}{4} - \frac{5}{6}$ (e) $2\frac{3}{7} + 3\frac{1}{4}$ (f) $5\frac{2}{3} - 1\frac{4}{7}$ (g) $2\frac{10}{11} + \frac{1}{2}$ (h) $6\frac{2}{5} - 2\frac{5}{6}$ (i) $5\frac{1}{2} - 4\frac{1}{3}$ (j) $4\frac{2}{3} + 2\frac{1}{5}$

(i)
$$4^2 \pm 2^1$$

A machine takes $2\frac{3}{5}$ minutes to make a microchip. How long will it take to produce 20 microchips?

Calculate the area and perimeter of a rectangle of length $4\frac{2}{5}$ cm and width $2\frac{1}{4}$ cm.