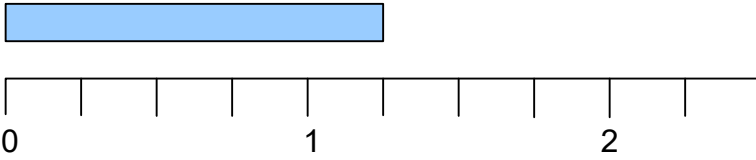


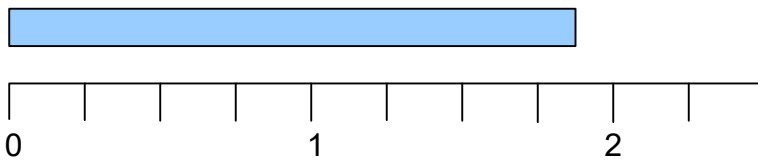
Fractions

1 Write the fraction represented by each of the following models

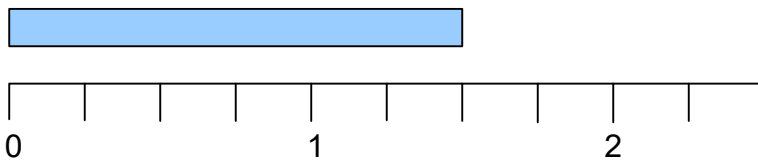
a



b



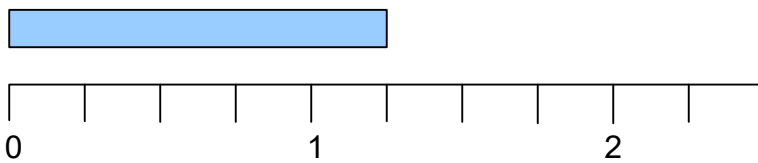
c



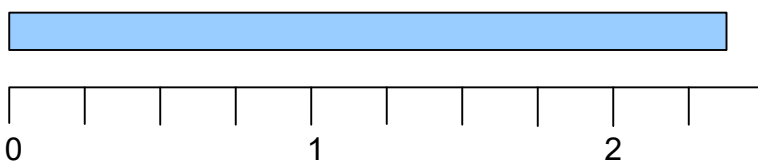
d



e



f



2 Match up the bar models in Question 1 with the answers to the following questions.

eg $\frac{5}{2} \times \frac{1}{2} = \frac{5}{4} = 1\frac{1}{4} \rightarrow$ matches model a.

a $5 \times \frac{1}{4} =$

d $7\frac{1}{8} \times \frac{1}{3} =$

b $4\frac{3}{4} \times \frac{1}{2} =$

e $3 \times \frac{1}{2} =$

c $\frac{1}{8} \times 3 =$

f $3\frac{3}{4} \times \frac{1}{2} =$

3 Complete the following calculations

a $4 \times \frac{1}{6} =$

d $\frac{4}{5} \times \frac{1}{7} =$

b $\frac{6}{7} \times 4 =$

e $3\frac{1}{5} \times \frac{2}{3} =$

c $\frac{2}{3} \times \frac{3}{4} =$

f $7\frac{9}{10} \times 2\frac{3}{8} =$

4 Complete the following calculations

a $8 \div \frac{1}{6} =$

d $\frac{4}{11} \div \frac{3}{7} =$

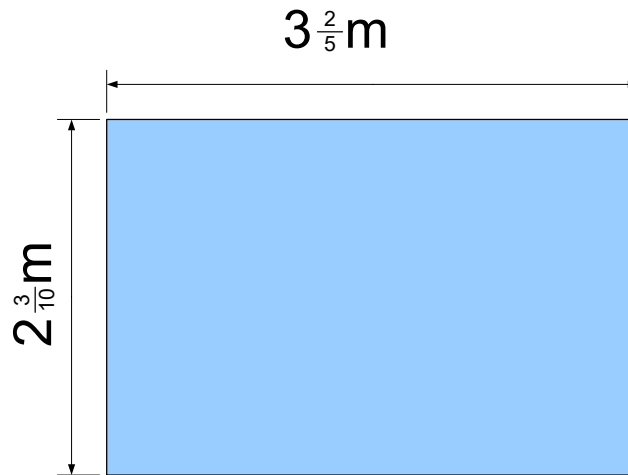
b $\frac{6}{7} \div 5 =$

e $3\frac{1}{5} \div \frac{2}{7} =$

c $\frac{2}{3} \div \frac{5}{8} =$

f $7\frac{9}{10} \div 2\frac{3}{8} =$

5 Look at the rectangle below.



- a What is the perimeter of the rectangle?
- b What is the area of the rectangle?

6 A large coil of wire is 24 m long.

- a How many pieces of wire can be cut from the coil that are $\frac{1}{2}$ m long?
- b How many pieces of wire can be cut from the coil that are $\frac{1}{5}$ m long?
- c How many pieces of wire can be cut from the coil that are $\frac{3}{4}$ m long?
- d How many pieces of wire can be cut from the coil that are $\frac{4}{5}$ m long?

7 Match the equivalent calculations

$$3 \div \frac{1}{2}$$

$$4 \div \frac{1}{3}$$

$$3 \div \frac{1}{5}$$

$$4 \div \frac{1}{2}$$

$$4 \times 2$$

$$4 \times 3$$

$$3 \times 2$$

$$3 \times 5$$

8 Match the numbers to their reciprocals

$$3$$

$$\frac{3}{4}$$

$$\frac{1}{15}$$

$$2$$

$$\frac{1}{x}$$

$$\frac{2}{x}$$

$$15$$

$$\frac{1}{3}$$

$$\frac{4}{3}$$

$$\frac{x}{2}$$

$$\frac{1}{2}$$

$$x$$