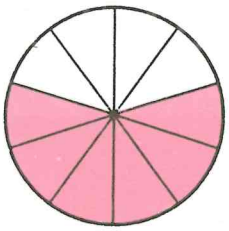
Dividing tenths



To find 0·6 ÷ 2 we have to share 6 tenths between 2. $2\overline{)0{\cdot}6}$

6 tenths shared equally between 2 gives 3 tenths each because $2 \times 0{\cdot}3 = 0{\cdot}6$

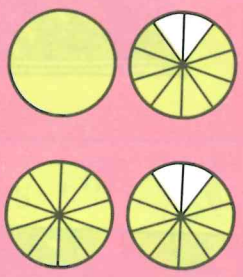
$$\begin{array}{r} 0{\cdot}3 \\ 2\overline{)0{\cdot}6} \end{array}$$

1 **(a)** $2\overline{)0{\cdot}4}$ **(b)** $2\overline{)0{\cdot}8}$ **(c)** $3\overline{)0{\cdot}6}$ **(d)** $4\overline{)0{\cdot}8}$ **(e)** $3\overline{)0{\cdot}9}$

To find 4·6 ÷ 2, share the units, then share the tenths.

$$\begin{array}{r} 2{\cdot}3 \\ 2\overline{)4{\cdot}6} \end{array}$$

2 Now do these: **(a)** 6·9 ÷ 3 **(b)** 8·2 ÷ 2 **(c)** 4·8 ÷ 4 **(d)** 3·6 ÷ 3



We can find 1·8 ÷ 3 like this:

Share the units. There are not enough. Exchange for tenths. $3\overline{)1{\cdot}8}$

Share the tenths. 18 shared equally among 3 gives 6 each.

$$\begin{array}{r} 0{\cdot}6 \\ 3\overline{)1{\cdot}8} \end{array}$$

3 **(a)** $2\overline{)1{\cdot}0}$ **(b)** $3\overline{)1{\cdot}5}$ **(c)** $4\overline{)2{\cdot}4}$ **(d)** $9\overline{)1{\cdot}8}$ **(e)** $7\overline{)3{\cdot}5}$ **(f)** $8\overline{)3{\cdot}2}$ **(g)** $5\overline{)4{\cdot}0}$

4 **(a)** $6\overline{)3{\cdot}6}$ **(b)** $7\overline{)6{\cdot}3}$ **(c)** $9\overline{)5{\cdot}4}$ **(d)** $8\overline{)6{\cdot}4}$ **(e)** $8\overline{)5{\cdot}6}$ **(f)** $7\overline{)4{\cdot}9}$ **(g)** $9\overline{)8{\cdot}1}$

We can find 7·2 ÷ 4 like this:

Share the units. 7 shared equally among 4 gives 1 each. This leaves 3. Exchange for tenths.

$$\begin{array}{r} 1 \\ 4\overline{)7{\cdot}^{3}2} \end{array}$$

Share the tenths. 32 shared equally among 4 gives 8 each.

$$\begin{array}{r} 1{\cdot}\,8 \\ 4\overline{)7{\cdot}^{3}2} \end{array}$$

5 **(a)** $2\overline{)7{\cdot}2}$ **(b)** $3\overline{)4{\cdot}8}$ **(c)** $5\overline{)7{\cdot}5}$ **(d)** $7\overline{)9{\cdot}1}$ **(e)** $4\overline{)9{\cdot}6}$ **(f)** $6\overline{)8{\cdot}4}$ **(g)** $8\overline{)9{\cdot}6}$

6 **(a)** $9\overline{)10{\cdot}8}$ **(b)** $7\overline{)11{\cdot}9}$ **(c)** $5\overline{)12{\cdot}5}$ **(d)** $3\overline{)17{\cdot}1}$ **(e)** $4\overline{)13{\cdot}6}$ **(f)** $6\overline{)20{\cdot}4}$ **(g)** $8\overline{)62{\cdot}4}$

7 Which gives the larger answer **(a)** 48·3 ÷ 7 or **(b)** 54·4 ÷ 8?