Use short division with decimal remainders

divisor

$24 \div 4 = 6$  ← quotient

$4\overline{)24}$ = 6

dividend

$625 \div 4 =$

1) Starting from the left, see how many times the divisor will go into each digit of the dividend

$$1\ 5\ 6$$
$$4\overline{)6\ {}_2 2\ {}_2 5}$$

2) When you reach the last digit, add a decimal point to the dividend and a decimal point to the quotient.

$$1\ 5\ 6\ .$$
$$4\overline{)6\ {}_2 2\ {}_2 5\ .\ 0}$$

3) Continue the division, adding more zeroes to the dividend if needed.

$$1\ 5\ 6\ .\ 2\ 5$$
$$4\overline{)6\ {}_2 2\ {}_2 5\ .\ 0\ {}_1 0\ {}_2}$$

You can check by doing short multiplication.

$156.25 \times 4 = 625$ ✓

$8\overline{)1256}$    $9\overline{)7263}$    $4\overline{)1520}$    $5\overline{)2090}$

$6\overline{)3654}$    $8\overline{)1040}$    $7\overline{)4620}$    $3\overline{)1590}$

Use short division with decimal remainders

divisor

$2\ 4 \div 4 = 6$ — quotient

dividend

6

$4\overline{|2\ 4}$

$6\ 2\ 5 \div 4 =$

$\begin{array}{r} 1\ 5\ 6 \\ 4\overline{|6\ 2\ 5} \\ {}_2\ {}_2 \end{array}$

1) Starting from the left, see how many times the divisor will go into each digit of the dividend

$\begin{array}{r} 1\ 5\ 6\ . \\ 4\overline{|6\ 2\ 5.\ 0} \\ {}_2\ {}_2 \end{array}$

2) When you reach the last digit, add a decimal point to the dividend and a decimal point to the quotient.

$\begin{array}{r} 1\ 5\ 6\ .\ 2\ 5 \\ 4\overline{|6\ 2\ 5.\ 0\ 0} \\ {}_2\ {}_2\ {}_1\ {}_2 \end{array}$

3) Continue the division, adding more zeroes to the dividend if needed.

You can check by doing short multiplication.

$1\ 5\ 6.\ 2\ 5 \times 4 = 6\ 2\ 5$ ✓

$8\ \overline{)5744}$    $4\ \overline{)3944}$    $2\ \overline{)1106}$    $3\ \overline{)867}$

$5\ \overline{)4905}$    $9\ \overline{)2961}$    $9\ \overline{)7830}$    $4\ \overline{)3148}$

Use short division with decimal remainders

$2\ 4 \div 4 = 6$

divisor, quotient, dividend

$6\ 2\ 5 \div 4 =$

```
    1  5  6
4 ) 6  2  5
     2  2
```
1) Starting from the left, see how many times the divisor will go into each digit of the dividend

```
    1  5  6  .
4 ) 6  2  5. 0
     2  2
```
2) When you reach the last digit, add a decimal point to the dividend and a decimal point to the quotient.

```
    1  5  6 . 2  5
4 ) 6  2  5. 0  0
     2  2   1  2
```
3) Continue the division, adding more zeroes to the dividend if needed.

You can check by doing short multiplication.

$1\ 5\ 6.\ 2\ 5 \times 4 = 6\ 2\ 5$ ✓

$2\overline{)366}$          $6\overline{)2478}$          $7\overline{)4795}$          $2\overline{)1170}$

$7\overline{)1939}$          $3\overline{)2601}$          $6\overline{)4332}$          $5\overline{)4815}$

Use short division with decimal remainders

$2\ 4 \div 4 = 6$   divisor / quotient / dividend   $4\overline{)2\ 4}$  = 6

$6\ 2\ 5 \div 4 =$

$4\overline{)6\ _2 2\ _2 5}$  = 1 5 6

1) Starting from the left, see how many times the divisor will go into each digit of the dividend

$4\overline{)6\ _2 2\ _2 5.\ 0}$ = 1 5 6 .

2) When you reach the last digit, add a decimal point to the dividend and a decimal point to the quotient.

$4\overline{)6\ _2 2\ _2 5.\ _1 0\ _2 0}$ = 1 5 6 . 2 5

3) Continue the division, adding more zeroes to the dividend if needed.

You can check by doing short multiplication.

$1\ 5\ 6\ .\ 2\ 5 \times 4 = 6\ 2\ 5$ ✓

$4\overline{)1356}$          $9\overline{)7533}$          $6\overline{)4128}$          $7\overline{)6356}$

$8\overline{)2864}$          $2\overline{)1050}$          $3\overline{)633}$          $2\overline{)668}$

# Short division– question 11

**Sheet 1**

$$8\overline{)1256} = 157$$

$$9\overline{)7263} = 807$$

$$4\overline{)1520} = 380$$

$$5\overline{)2090} = 418$$

$$6\overline{)3654} = 609$$

$$8\overline{)1040} = 130$$

$$7\overline{)4620} = 660$$

$$3\overline{)1590} = 530$$

**Sheet 2**

$$8\overline{)5744} = 718$$

$$4\overline{)3944} = 986$$

$$2\overline{)1106} = 553$$

$$3\overline{)867} = 289$$

$$5\overline{)4905} = 981$$

$$9\overline{)2961} = 329$$

$$9\overline{)7830} = 870$$

$$4\overline{)3148} = 787$$

**Sheet 3**

$$2\overline{)366} = 183$$

$$6\overline{)2478} = 413$$

$$7\overline{)4795} = 685$$

$$2\overline{)1170} = 585$$

$$7\overline{)1939} = 277$$

$$3\overline{)2601} = 867$$

$$6\overline{)4332} = 722$$

$$5\overline{)4815} = 963$$

**Sheet 4**

$$4\overline{)1356} = 339$$

$$9\overline{)7533} = 837$$

$$6\overline{)4128} = 688$$

$$7\overline{)6356} = 908$$

$$8\overline{)2864} = 358$$

$$2\overline{)1050} = 525$$

$$3\overline{)633} = 211$$

$$2\overline{)668} = 334$$