LO: To solve decimal problems
Hard

What number is marked at A?

6.7   6.8   6.9   A

Write these prices in order, starting with the smallest.

72p   £2.70   £0.27   £7.20   £2.07

[ ] [ ] [ ] [ ] [ ]

smallest

Write these prices in order, starting with the **smallest**.

£20.50   £25   £2.50   £20.05

£[ ]   £[ ]   £[ ]   £[ ]

smallest

Look at this number.

23,451.96

Write the **digit** that is in the hundreds place.

Write the **digit** that is in the hundredths place.

Write in the missing numbers.

Number	Rounded to the nearest **whole** number
5.05	
5.55	
4.45	
4.54	

The mass of a 10p coin is 6.5 g.

The mass of a 5p coin is half the mass of a 10p coin.

What is the mass of these six coins **altogether**?

Circle the number that is closest to 20

19.95   20.1   19.09   20.09   20.201

What number is halfway between 1.4 and 2.1?

Here is a number line.

Y   X

0   1

What is the value of **X**?

LO: To solve decimal problems
Harder

Write these numbers in order of size, starting with the **smallest**.

1.9   0.96   1.253   0.328

smallest

Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

One gram of gold costs £32.94

What is the cost of **half a kilogram** of gold?
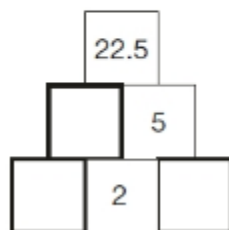

Circle two numbers that add together to equal **0.25**

0.05   0.23   0.2   0.5

Two decimal numbers add together to equal 1

One of the numbers is 0.007

What is the other number?

Write the missing number.

70 ÷ [   ] = 3.5

Here is a number pyramid.

The number in a box is the **product** of the two numbers below it.

Write the missing numbers.

Write these numbers in order, starting with the **smallest**.

0.78   0.607   5.6   0.098   4.003

smallest

The numbers in this sequence increase by equal amounts each time.

Write in the three missing numbers.

1				7

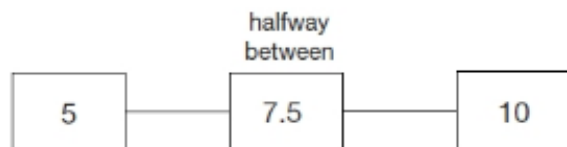Write these in order of size, starting with the smallest.
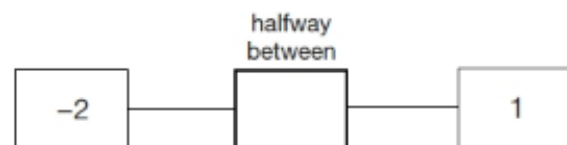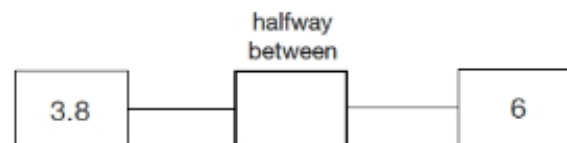
$\dfrac{2}{3}$ 0.5 $\dfrac{3}{5}$ 0.65

smallest

The number 7.5 is halfway between 5 and 10

halfway between

| 5 | — | 7.5 | — | 10 |

Write in the missing numbers.

halfway between

| 3.8 | — | | — | 6 |

halfway between

| −2 | — | | — | 1 |

Write these in order of size, starting with the smallest.

$\dfrac{3}{4}$ 0.34   0.7   43%

smallest

Write the missing numbers.

$$\dfrac{\boxed{}}{160} = 0.1$$

$$\dfrac{160}{\boxed{}} = 0.2$$

Amy thought of a number.

She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

Her final answer was 61

What number did Amy start with?

Write the missing number.

$$12.5 \div \boxed{} = 7.5 \div 1.5$$

Write these numbers in order, starting with the smallest.

8.12   1.8   8.118   8.2   1.28

smallest

Hardest

LO: To solve decimal problems
Hard
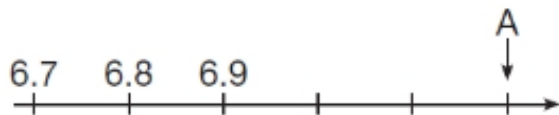
Write these prices in order, starting with the smallest.

| 72p ✓ | £2.70 | £0.27 ✓ | £7.20 | £2.07 ✓ |

| 0·27 | 72p | 2·07 | 2·70 | 7.20 |

smallest

6.7   6.8   6.9

A

7·2

What number is marked at A?

Look at this number.

23,451.96

Write the **digit** that is in the hundreds place.

4

_____ **6**

Write the **digit** that is in the hundredths place.

Write in the missing numbers.

Number	Rounded to the nearest **whole** number
5.05	5
5.55	6
4.45	4
4.54	5

Write these prices in order, starting with the **smallest**.

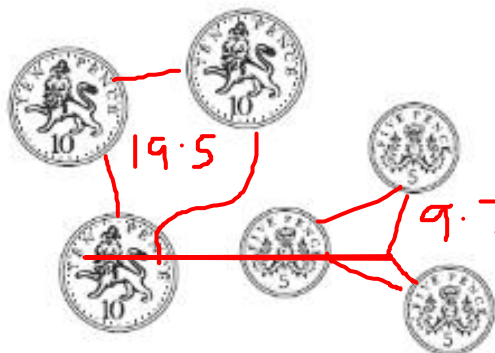| £20.50 | £25 | £2.50 | £20.05 |

| £2·50 | £20·05 | £20·50 | £25 |

smallest

The mass of a 10p coin is 6.5 g.

The mass of a 5p coin is half the mass of a 10p coin.

What is the mass of these six coins **altogether**?   **29·25g**

19·5

9·75

Circle the number that is closest to 20

19.95   20.1   19.09   20.09   20.201

What number is halfway between 1.4 and 2.1?

1·75

Here is a number line.

Y   X

0   1

What is the value of **X**?   **0·7**

LO: To solve decimal problems
Harder

Write these numbers in order of size, starting with the **smallest**.

| 1.9 | 0.96 | 1.253 | 0.328 |

| 0.328 | 0.96 | 1.253 | 1.9 |
smallest

Circle two numbers that add together to equal **0.25**

(0.05)   0.23   (0.2)   0.5

Write the missing number.

70 ÷ [20] = 3.5

Write these numbers in order, starting with the **smallest**.

0.78 ✓   0.607 ✓   5.6   0.098 ✓   4.003 ✓

| 0.098 | 0.607 | 0.78 | 4.003 | 5.6 |
smallest

Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

5.75

One gram of gold costs £32.94

What is the cost of **half a kilogram** of gold?

£16470

Two decimal numbers add together to equal 1
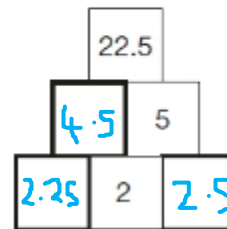
One of the numbers is 0.007

What is the other number?

0.993

Here is a number pyramid.

The number in a box is the **product** of the two numbers below it.

Write the missing numbers.

```
        22.5
    [4.5]    5
 [2.25]  2  [2.5]
```

This is Kirsty's recipe for breakfast cereal.

50 grams of oats
30 grams of raisins
40 grams of nuts

If she uses 125 grams of oats, how many grams of raisins does she need?

The numbers in this sequence increase by equal amounts each time.

Write in the three missing numbers.

$6 \div 4 = 1.5$

| 1 | 2.5 | 4 | 5.5 | 7 |

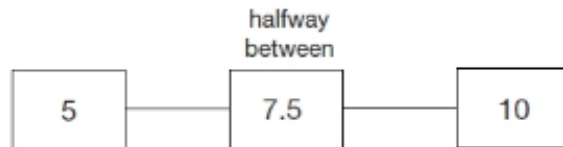Write these in order of size, starting with the smallest.

$0.6\dot{6}$

$\frac{2}{3}$ 0.5 $\frac{3}{5}$ 0.6   0.65

| 0.5 | 3/5 | 0.65 | 2/3 |

smallest

The number 7.5 is halfway between 5 and 10

| | halfway between | |
| 5 | 7.5 | 10 |

Write in the missing numbers.

| | halfway between | |
| 3.8 | 4.9 | 6 |

| | halfway between | |
| −2 | -0.5 | 1 |
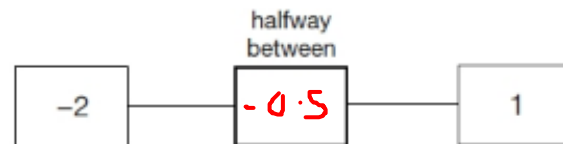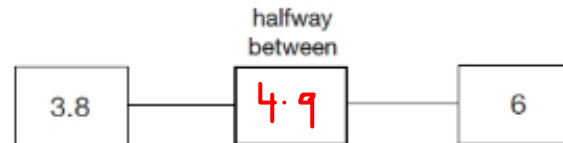
Write these in order of size, starting with the smallest.

0.75

$\frac{3}{4}$ 0.34   0.7   43%   0.43

| 0.34 | 43% | 0.7 | 3/4 |

smallest

Write the missing numbers.

$$\frac{16}{160} = 0.1$$

$$\frac{160}{800} = 0.2$$

Amy thought of a number.

She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

Her final answer was 61

What number did Amy start with?

15.5

Write the missing number.

5

$12.5 \div 2.5 = 7.5 \div 1.5$

Write these numbers in order, starting with the smallest.

8.12   1.8   8.118   8.2   1.28

| 1.28 | 1.8 | 8.118 | 8.12 | 8.2 |

smallest

Hardest