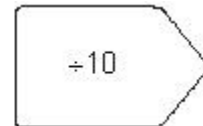
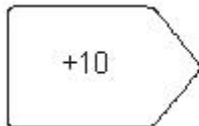


10 Question Challenge 4

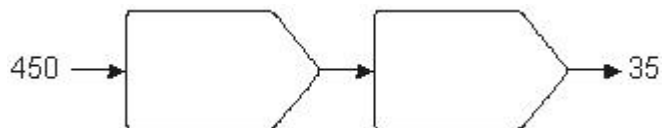
Q1.

Fill in the boxes to complete each number chain.

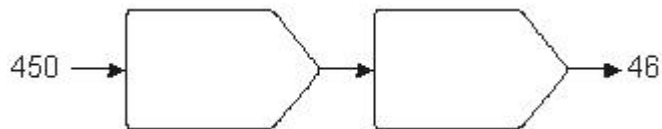
Use any of the following:



1 mark



1 mark

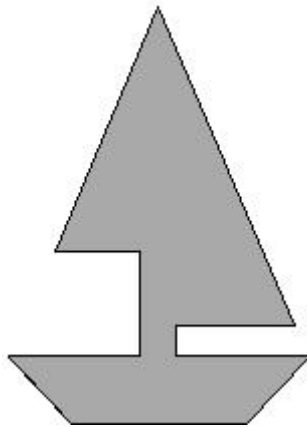


1 mark

Q2.

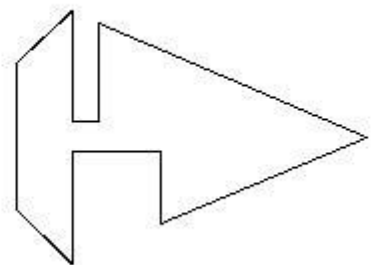
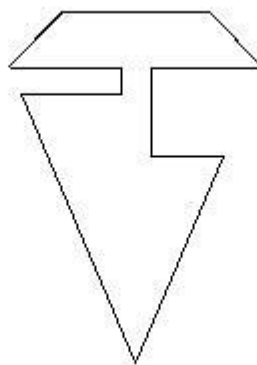
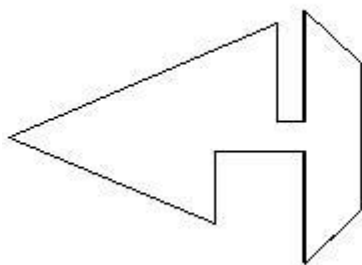
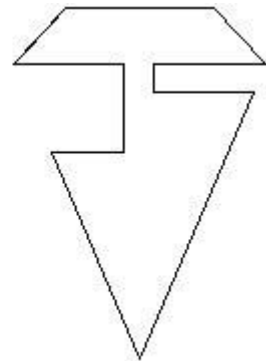
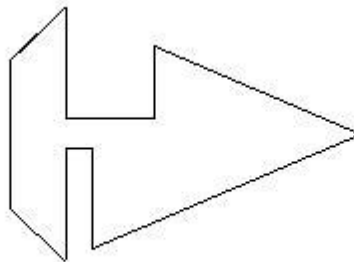
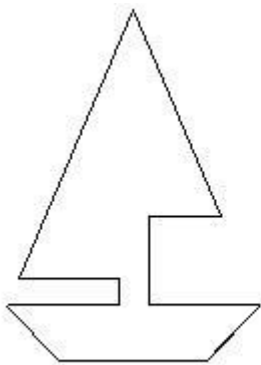
Samir has a piece of card that is grey on one side and white on the other.

He cuts out this shape from the card.



He turns over the shape so that the white side is showing.

Tick (✓) **all** the shapes below that show the **white** side of Samir's shape.



2 marks

Q3. People pay to visit a garden.

Tickets:	
Age 16 and over	£3.60
Under 16	£2.25

145 people pay.

39 of them are **under 16**

How much ticket money is paid altogether?



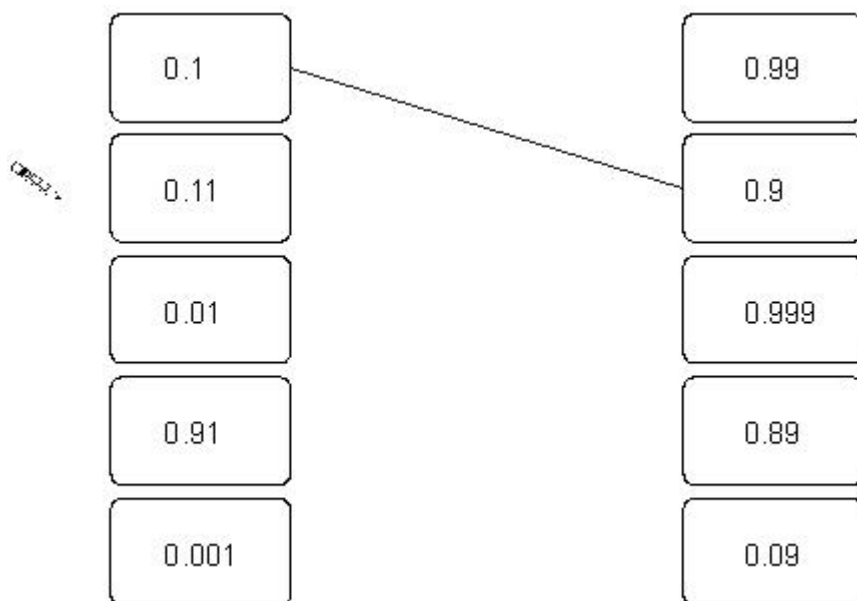
£

2 marks

Q4.

(a) Join all the pairs of numbers that **add** together to equal **1**

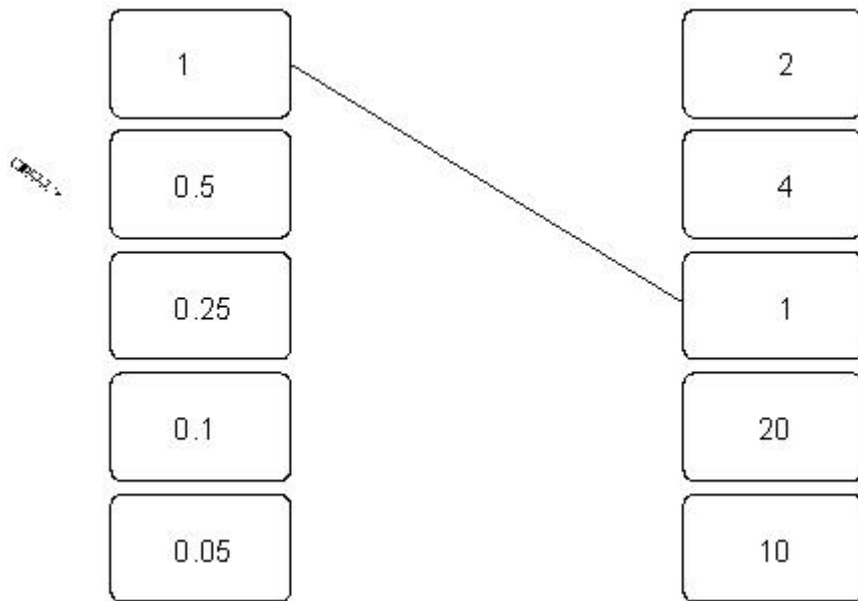
The first one is done for you.



2 marks

- (b) Now join all the pairs of numbers that **multiply** to equal **1**

The first one is done for you.



2 marks

Q5. Adam is twice as old as Barry.

Charlie is 3 years younger than Barry.

The sum of all their ages is 53.

How old is Barry?

1 mark

- Q6. (a)** Write a number that is bigger than $5\frac{2}{3}$ but **smaller than 6**



1 mark

- (b) Now write a number that is **bigger than 5.6** but **smaller than $5\frac{2}{3}$**



1 mark

Q7.

In this question, n stands for any **whole number**.

- (a) For the expression $2n$, tick (✓) the correct statement below.

☐

$2n$ must be odd.

☐

$2n$ must be even.

☐

$2n$ could be odd or even.

Explain your answer.



1 mark

- (b) For the expression $3n$, tick (✓) the correct statement below.

☐

$3n$ must be odd.

☐

$3n$ must be even.

☐

$3n$ could be odd or even.

Explain your answer.



1 mark

Q8. Look at this information.

$$\frac{27}{40} = 0.675$$

$$\frac{29}{40} = 0.725$$

Use this information to write the missing **decimals** below.



$$\frac{31}{40} = \dots\dots\dots$$

1 mark



$$\frac{23}{40} = \dots\dots\dots$$

1 mark

Q9. The first square number is 1, and the sum of the **first 20** square numbers is **2870**

Work out the sum of the **first 21** square numbers.



.....
2 marks

Q10. I am thinking of two numbers.

When I **add** my numbers, the answer is **1**

When I **multiply** my numbers, the answer is **0.09**

What are my numbers?



..... and 1 mark