Ron and Eva each make a 3-digit number from these digit cards.

3	6	8

- **Ron makes the largest even number possible.**
- **Eva makes the smallest odd number possible.**

What is the difference between their numbers?

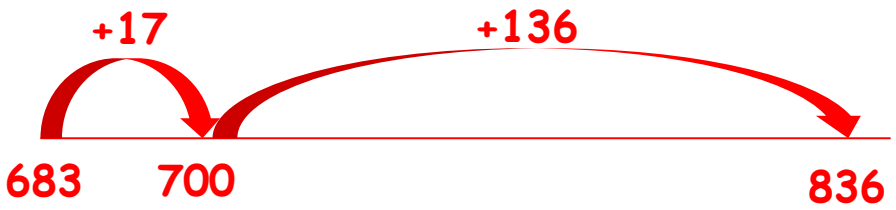
Largest even number: 836

Smallest odd number: 683

Find the difference:

836 – 683 = **153**

You could work this out by counting on with a number line:



Kate and Tom have **30 sweets between them.**

Kate has **6 more** than Tom.

How many sweets do they each have?

Kate: 18 sweets Tom: 12 sweets

Start by giving them the same: 15 sweets each (half of 30 = 15)

Halve the difference of 6 (half of 6 is 3)

Take 3 from Tom's 15 (leaves him with 12) and give them to Kate (she now has 18)

Double check that Kate has 6 more than Tom. She does!

1 What are the missing digits?

Workers in a factory make toys.

- On Monday they make 2,350 toys.
- On Tuesday they make 235 more toys than they did on Monday.

By Wednesday they have to make 7,500 toys in total.

How many toys do they need to make on Wednesday to make 7,500 in total?

Monday: **2350** toys

Tuesday: 2350 + 235 = **2585** toys

Monday + Tuesday: 2350 + 2585 = 4935

Need to make 7500 in total so find the difference:

7500 – 4935 = **2565**

(A number line works quite well here)

Be careful: they didn't make 235 toys on Tuesday: they made 235 **MORE** than they did on Monday.

The cost of a pineapple is half the cost of a melon.

£3.50 each

How much does the pineapple and melon cost altogether?

Half of £3.50 = £1.75 *(try halving £3 and then halving 50p)*

£3.50 + £1.75 = **£5.25**

Complete the number sentences.

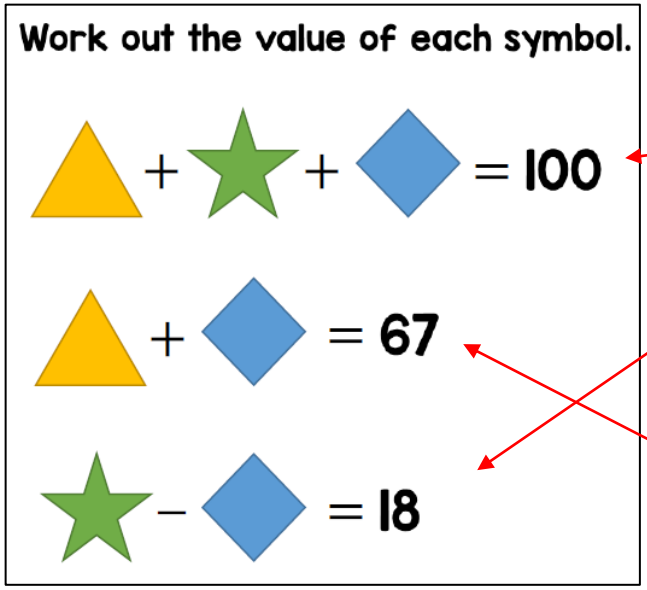
$65 + \boxed{14} = 79$

$83 + 28 = 82 + \boxed{29}$

For the bottom one, you could work out that the left side equals 111 so the other side must equal 111 and find the missing number that way.

However, ideally, you're supposed to notice that 82 is **one less** than 83 so for both sides to be equal, the missing number needs to be **one more** than 28 (i.e. 29).

Work out the value of each symbol.



so looking at the top one, **star must equal <u>33</u>** (100 – 67)

Now use the bottom one to work out the diamond. 33 - ? = 18

The **diamond must be <u>15</u>**

Finally, use the middle one to work out the triangle. ? + 15 = 67

The **triangle must be <u>52</u>**

Here are some digit cards.

a) **Find the 4-digit number that is closest to 5,000**

You may use each card only once.

b) **Find the 4-digit number that is the <u>second closest</u> to 5,000**

c) **Find the 4-digit number that is the <u>third closest</u> to 5,000**

As above, you may only use each card once.

a) **<u>4951</u>**

b) **<u>4915</u>**

c) **<u>5149</u>**

The third question was sneaky. If you kept the 4 in the thousands, you'd have probably put 4591 which is 409 away from 5000. 5149 is only 149 away. Fourth closest would be 5194 (194 away).

Mo and his four friends eat a meal.

They each pay for part of the meal.

Mo pays £5.20

Each of his friends pay £3.80

How much did the meal cost in total?

£3.80 x 4 (split into £3 and 80p then multiply both parts by 4)

£3 x 4 = £12

80p x 4 = 320p = £3.20

£12 + £3.20 = **£15.20** (what his friends paid)

Now add what Mo paid:

£15.20 + £5.20 = **£20.40**

Here are two identical rectangles.

3 m 8 cm

What is the length of one of the rectangles?

Just need to halve 3m 8cm.

Half of 3m = 1m 50cm

Half of 8cm = 4cm

1m 50cm + 4cm = **1m 54cm**

For every £1 coin Brooke has, she has three 5p coins.

Brooke has five £1 coins.

How much money does Brooke have?

HINT: work out how much she has in 5p coins and then add it to her £1 coins.

Brooke has **five £1 coins** so she must have **15 5p coins** (5 x 3).

5p x 15 = 75p (her total in 5p coins)

£5 + 75p = £5.75 (add the five £1 coins)

There are 360 people watching a film.

There are 197 adults watching the film.

How many <u>more</u> adults than children are watching the film?

Adults: **197**

Children: 360 – 197 = **163**

The questions asks how many <u>MORE</u> adults (find the difference):

197 – 163 = **<u>34</u>**