

Mathematics

# Number Sense

## Solving word problems using bar models

Miss Hill



**OAK**  
NATIONAL  
ACADEMY

# Lesson Agenda

**Star Words**



**Big Picture**



**Let's explore**



**Independent Task**

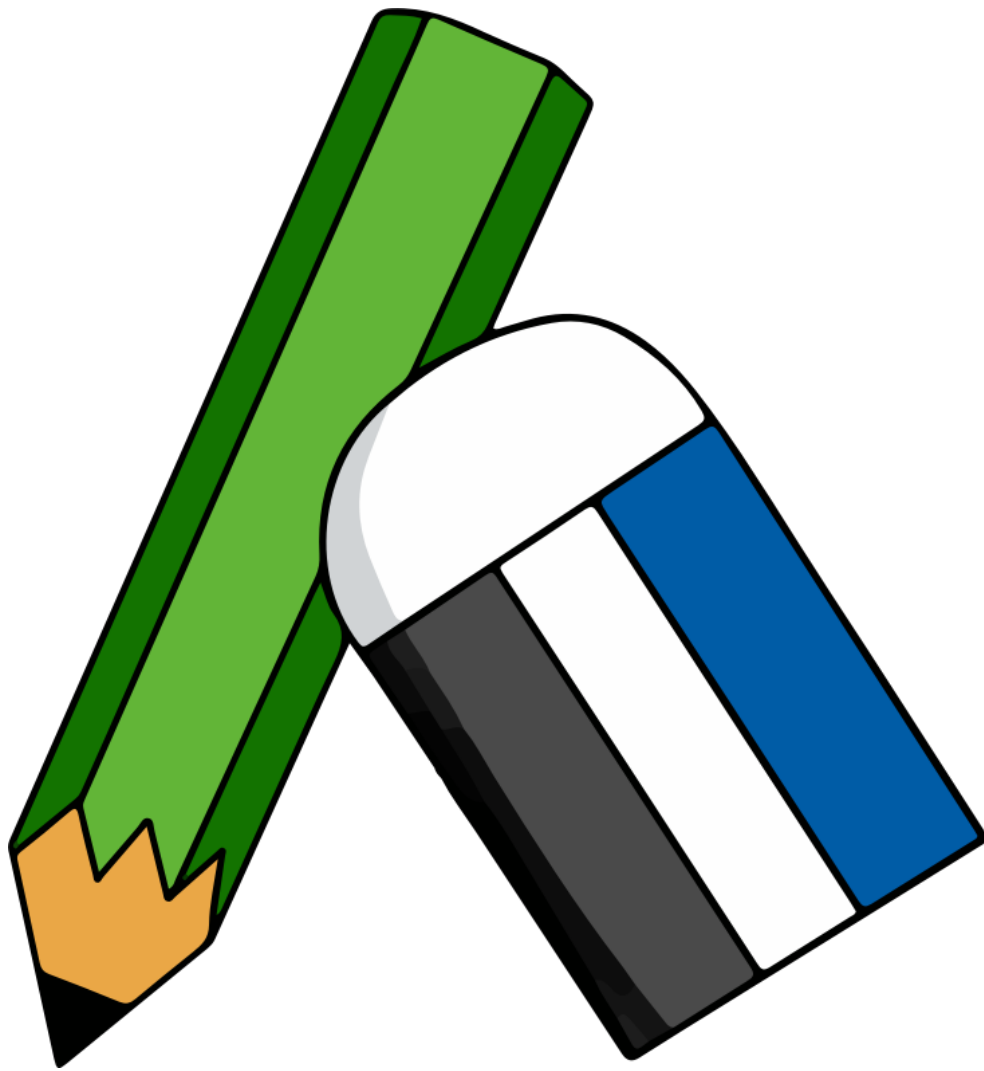


**Quiz**



# You will need...

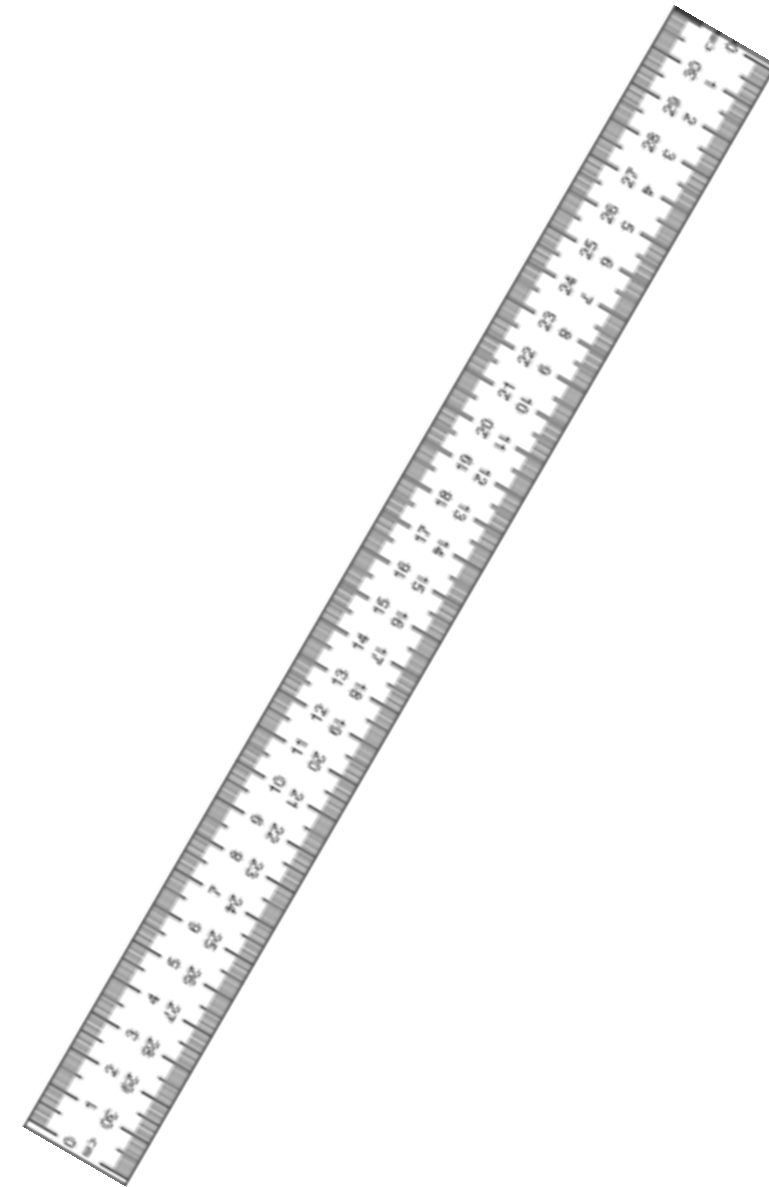
Pencil



Paper

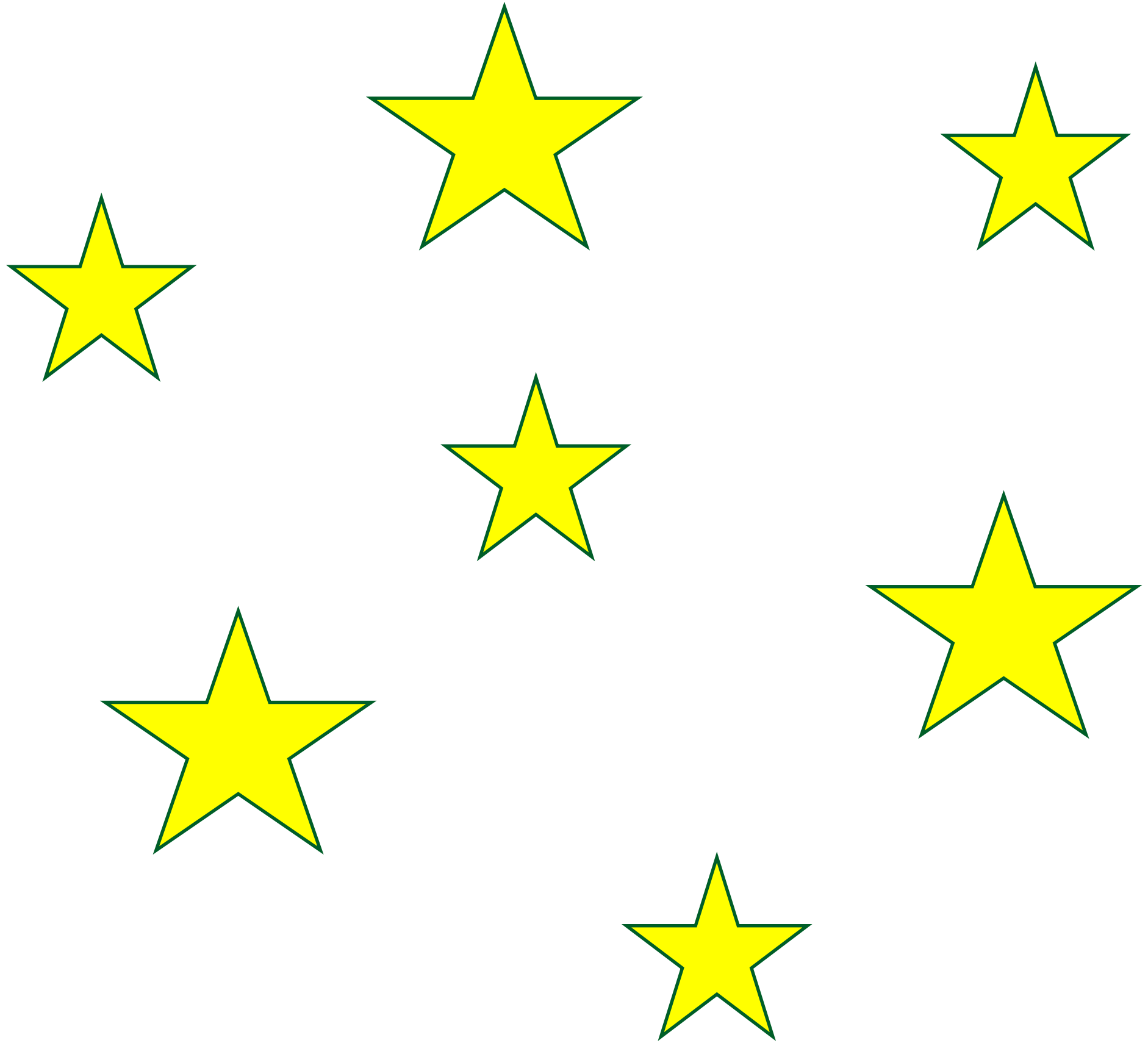


Ruler



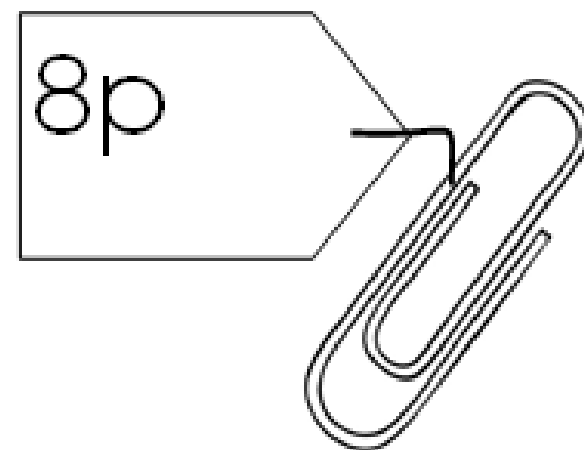
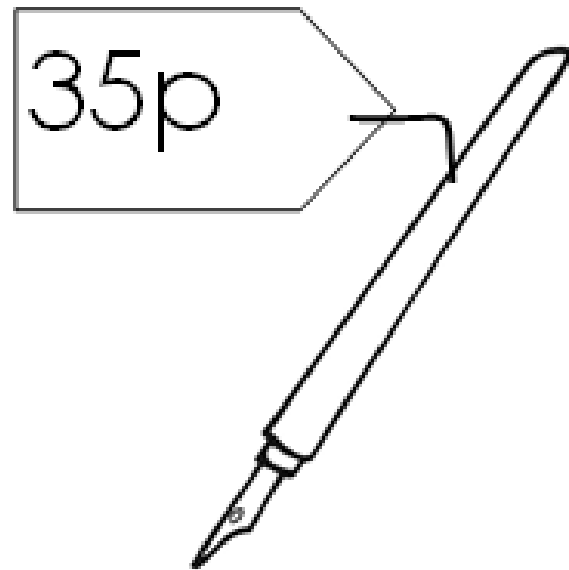
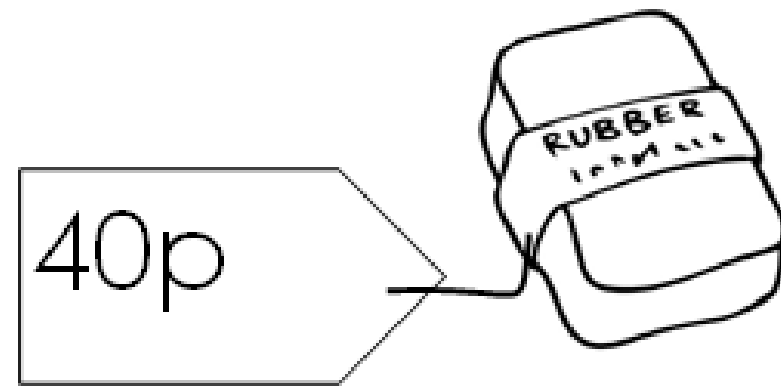
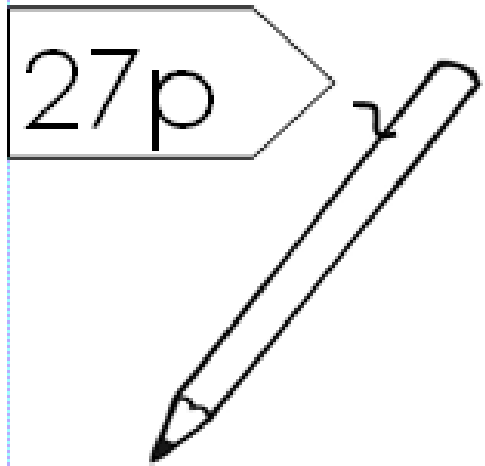
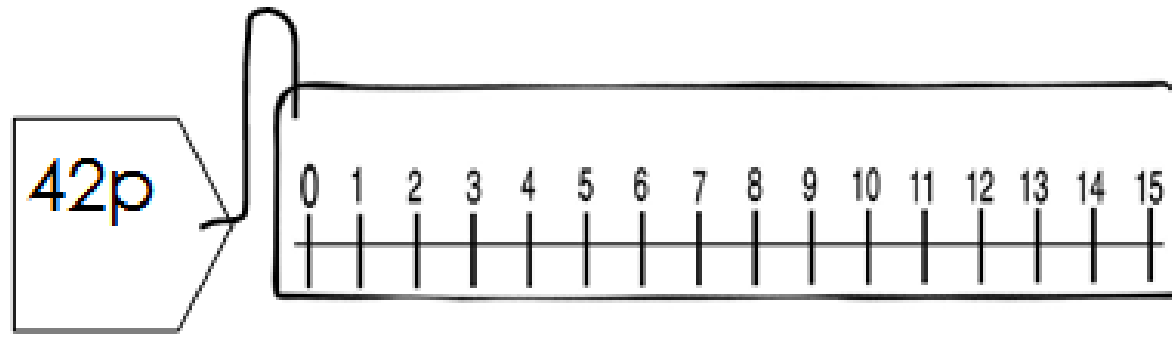
# Star Words

- strategy
- total
- pounds £
- pence p
- part
- whole
- bar model



Can you spot any addition or subtraction equations in the big picture?



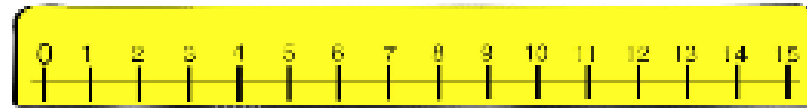


These items are available in the student union shop.

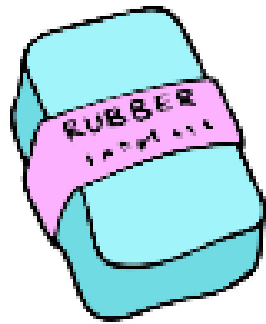


# Time to go shopping

42p



40p



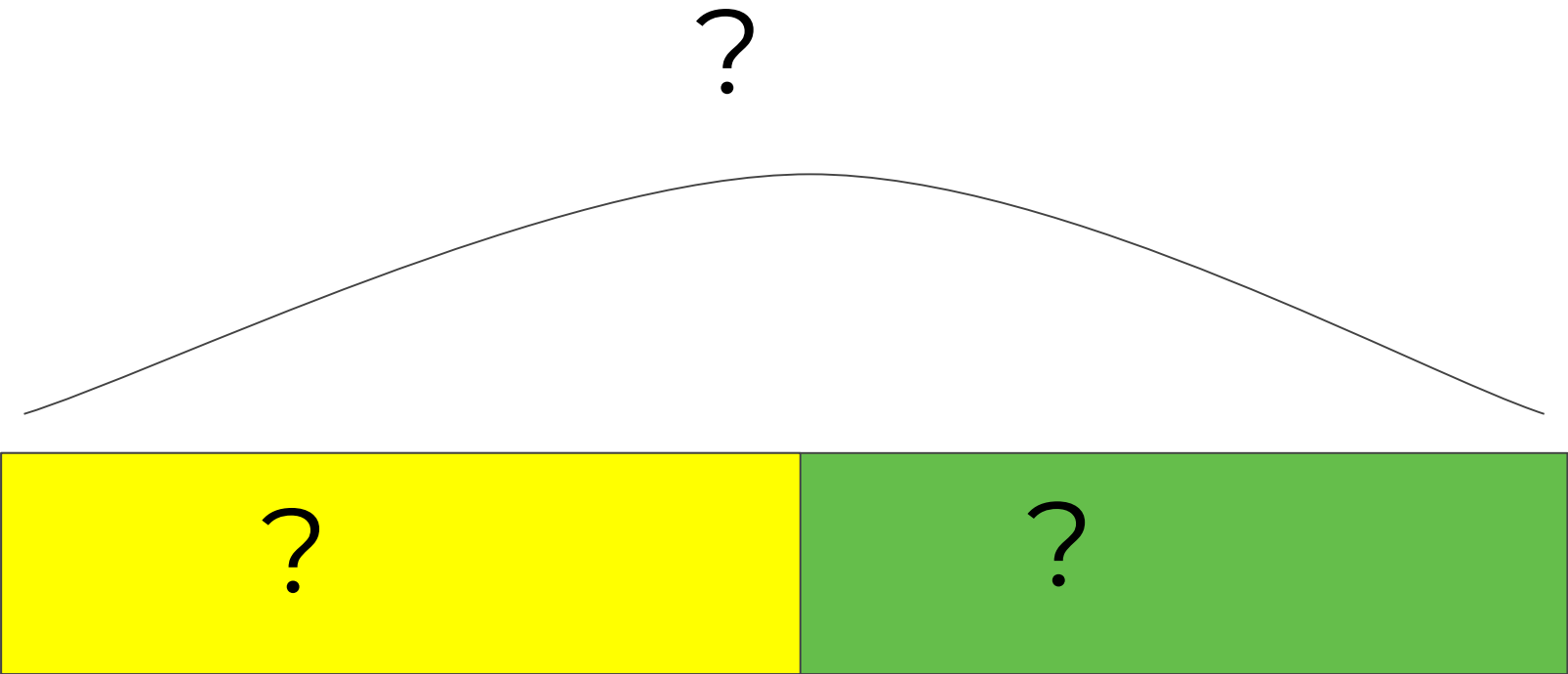
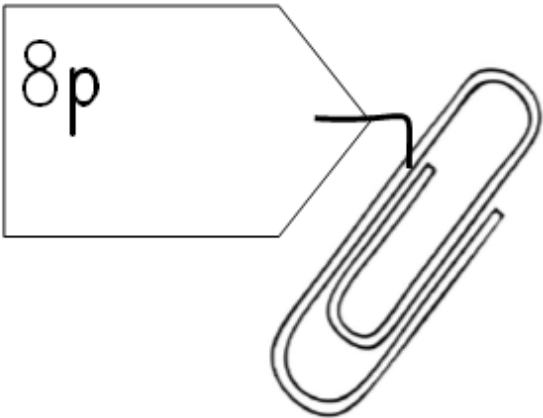
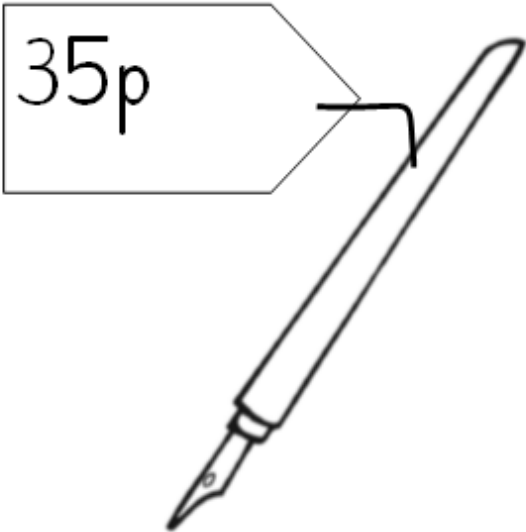
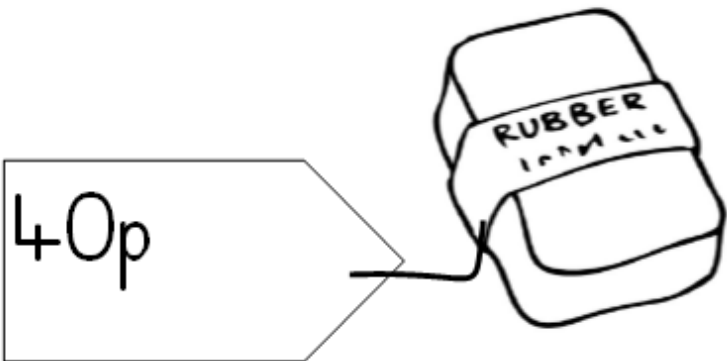
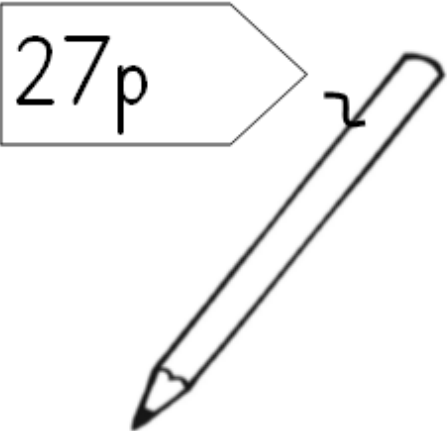
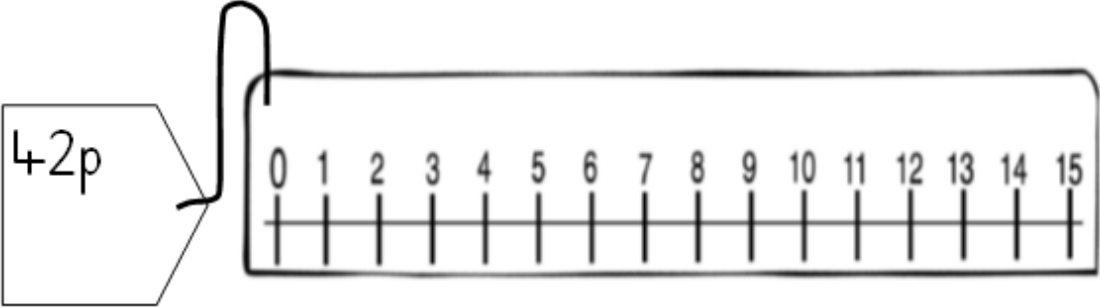
This student from King's College bought a rubber and a ruler. How much did he spend?

82 p!





# Let's Explore

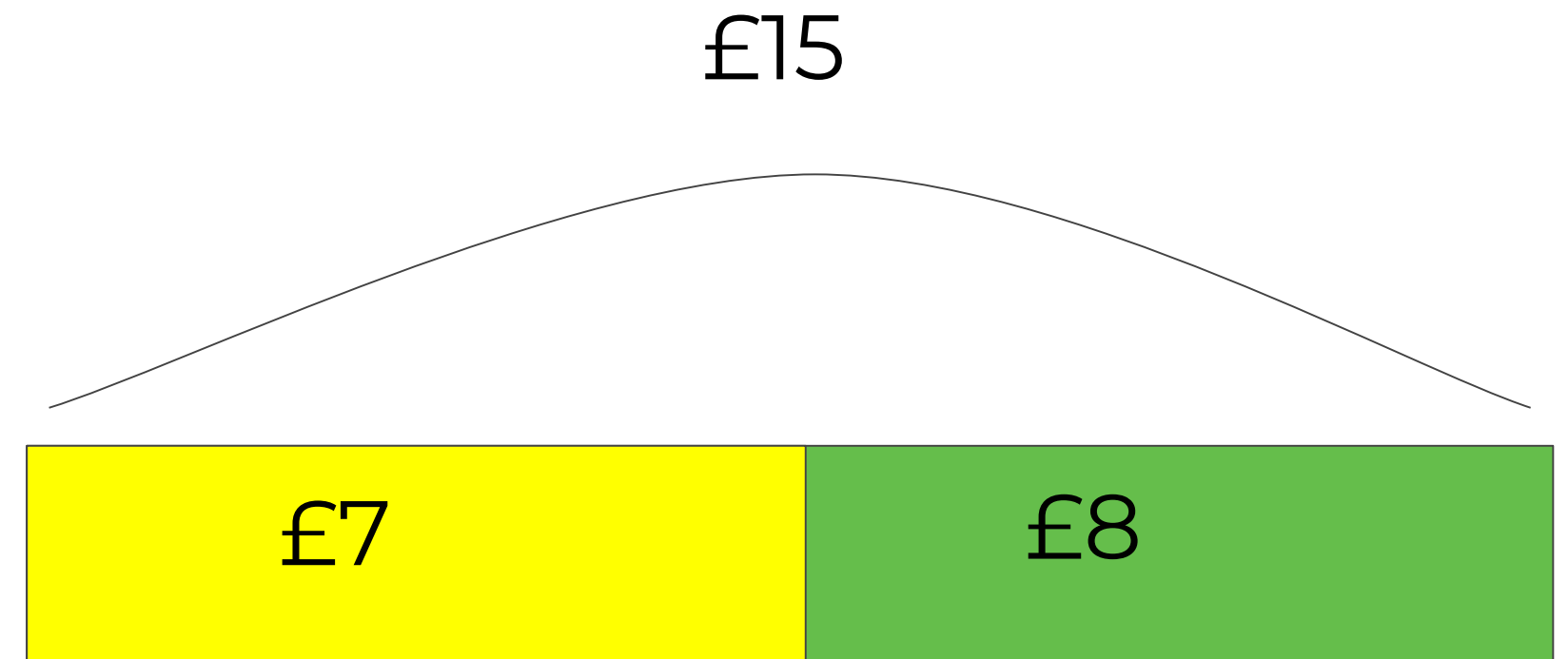


# Word Problem 1

On a trip to Cambridge, Andrew had a £20 note to spend in the gift shop. He bought a T-shirt for £7 and a map for £8. How much change did he get?

## Steps to Success!

1. Read the question carefully
2. Identify and underline key information
3. Write the equation
4. Create a bar model
5. Identify a calculation strategy to use
6. Answer the question



Don't forget the second step!  $£20 - £15 = £5$





## Independent Task- your turn

1. Walid had £20 to spend in the gift shop. He bought a T-shirt for £7 and a key ring for £4. How much change did he get?
1. Aina had £20 to spend in the gift shop. She bought a mug for £5, a bookmark for £3 and a key ring for £4. How much change did she get?
3. Isra had £20 to spend in the gift shop. After she bought her two items she had £3 change. One item she bought was a model punt for £11. How much did the other item cost?

### Steps to Success!

1. Read the question carefully
2. Identify and underline key information
3. Write the equation
4. Create a bar model
5. Identify a calculation strategy to use
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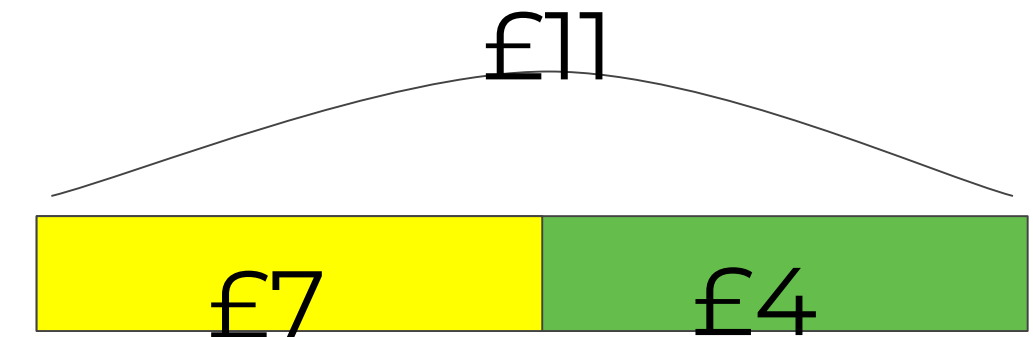




## Independent Task- your turn

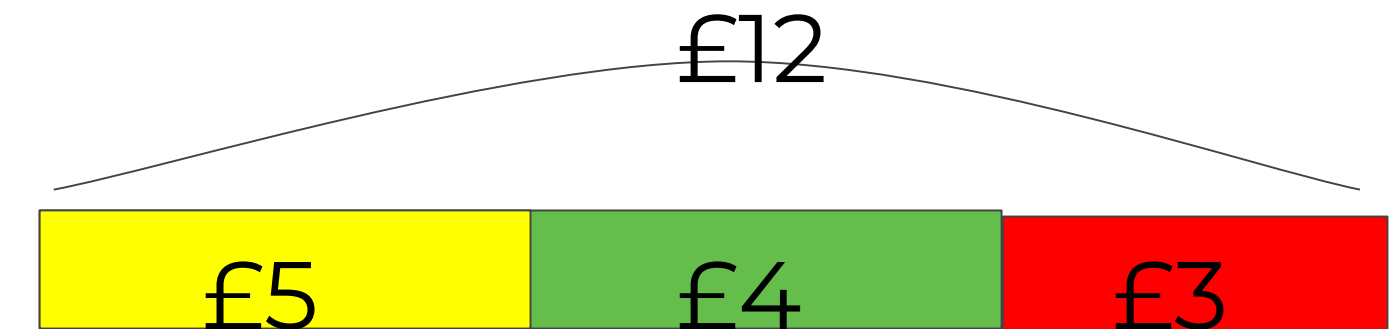
1. Walid had £20 to spend in the gift shop. He bought a T-shirt for £7 and a key ring for £4. How much change did he get?

$$£20 - £11 = £9$$



1. Aina had £20 to spend in the gift shop. She bought a mug for £5, a bookmark for £3 and a key ring for £4. How much change did she get?

$$£20 - £12 = £8$$



3. Isra had £20 to spend in the gift shop. After she bought her two items she had £3 change. One item she bought was a model punt for £11. How much did the other item cost?

$$£20 - £17 = £3$$

