

REASONING

4ER17

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2017

Total score (maximum 20)



150256



Llywodraeth Cymru
Welsh Government

- 1 The boys play the game.



The first round is a **draw**.

Write the missing number on Owen's card.

$$14 \div 2$$

Aled

$$3 + \underline{\quad}$$

Owen

The next round is another **draw**.

Write what the missing numbers could be.

$$5 \times \underline{\quad}$$

Aled

$$\underline{\quad} - 2$$

Owen

What else could the missing numbers be?

$$5 \times \underline{\quad}$$

Aled

$$\underline{\quad} - 2$$

Owen

Each round:	Win	Draw	Lose
	2 points	1 point each	0 points

The boys play 6 rounds altogether.

Here are Aled's results.

Aled wins 1	Aled draws 5	Aled loses 0	Altogether 6 rounds
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How many points does each boy score?



Aled scores points

Owen scores points

2m

Show how Aled can score 8 points in 6 rounds.

Aled wins <u> </u>	Aled draws <u> </u>	Aled loses <u> </u>	Altogether 6 rounds
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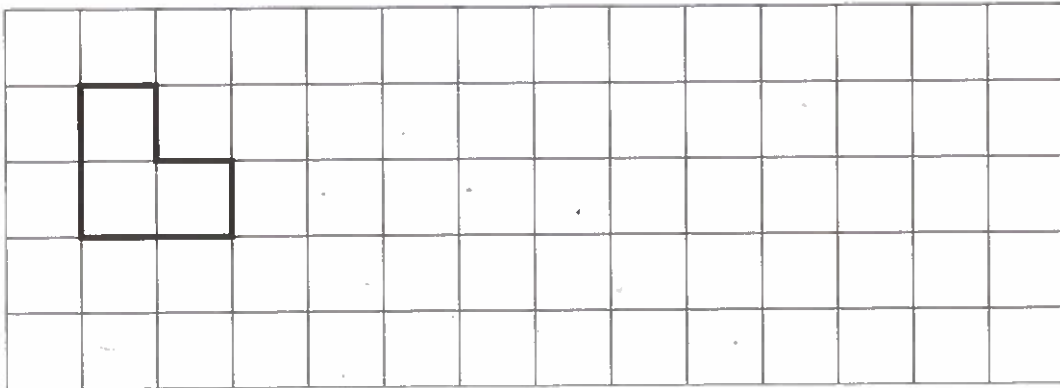
1m

Show a **different** way Aled can score 8 points in 6 rounds.

Aled wins <u> </u>	Aled draws <u> </u>	Aled loses <u> </u>	Altogether 6 rounds
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1m

2 Draw a **rectangle** that has the **same perimeter** as the L-shape.



3 Carys buys some lollipops.
Each lollipop is 5p.



She pays with these 4 coins.



Here is her change.



How many lollipops does she buy?

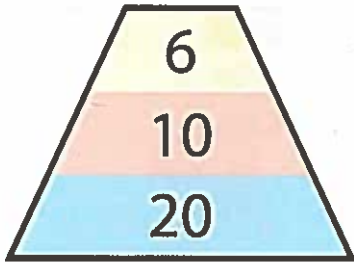
lollipops



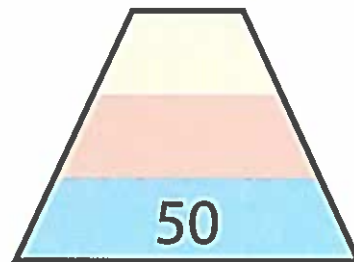
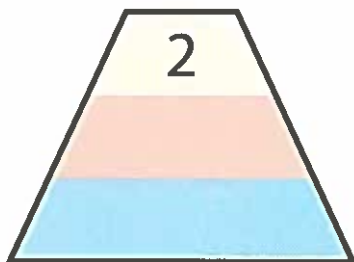
4 Look at the number blocks below.

Each block uses two rules.

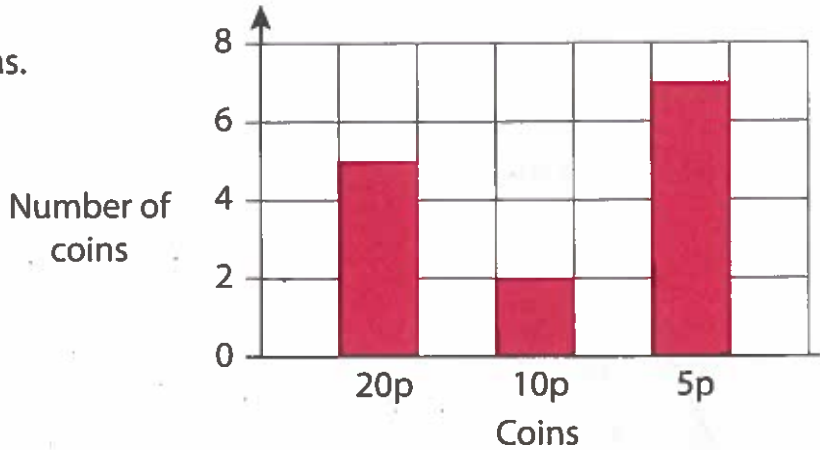
The two rules are the same for every block.



Use the two rules to write the missing numbers below.

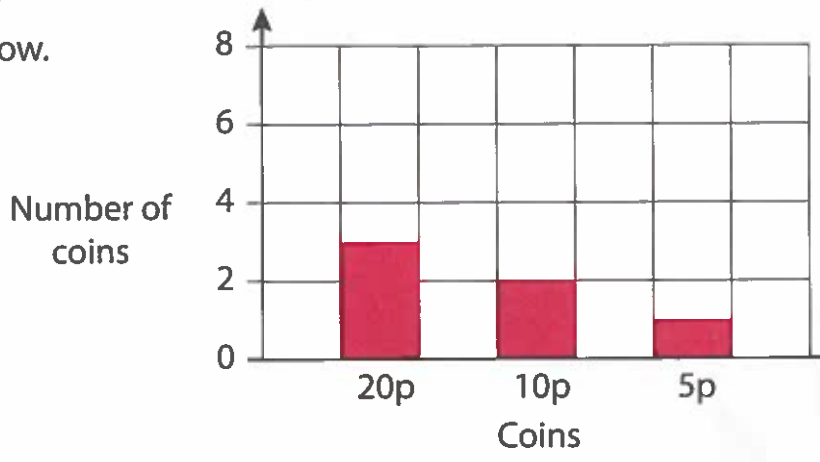


5 The chart shows how many coins Megan has.

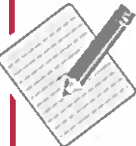


Megan buys a pencil.

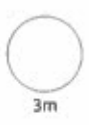
This chart shows how many coins she has now.



How much does the pencil cost?



p



6



I am Oct. I have 8 feet.

It takes me:

- 5 seconds to put one sock on
- 10 seconds to put one shoe on.



I am Dodec. I have 12 feet.

It takes me:

- 4 seconds to put one sock on
- 6 seconds to put one shoe on.

Oct and Dodec race to put on all their socks and shoes.

Who wins the race? Oct or Dodec or is it a draw?

Show how you work it out.

