

# REASONING

## 4ER17

# National Numeracy Tests

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:	<b>Win</b>	<b>Draw</b>	<b>Lose</b>
	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



Show how Aled can score 8 points in 6 rounds.

Aled wins _____	Aled draws _____	Aled loses _____	Altogether 6 rounds
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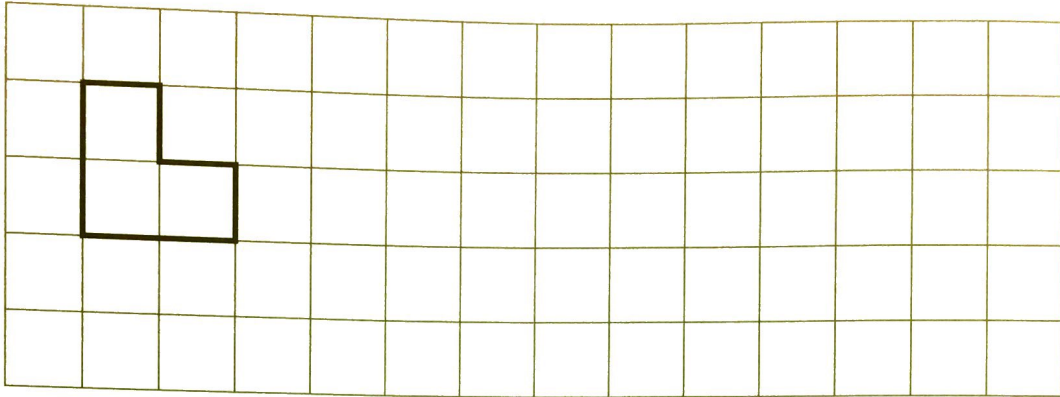


Show a **different** way Aled can score 8 points in 6 rounds.

Aled wins _____	Aled draws _____	Aled loses _____	Altogether 6 rounds
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- 2 Draw a **rectangle** that has the **same perimeter** as the L-shape.



1m

- 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?



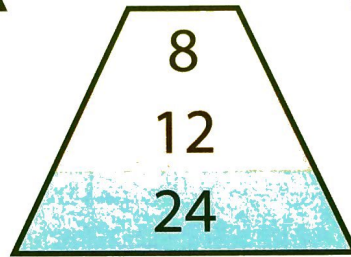
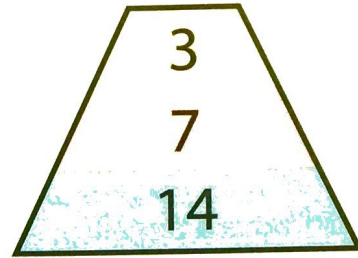
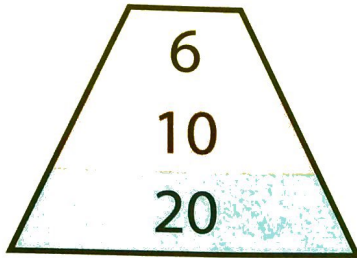
lollipops

2m

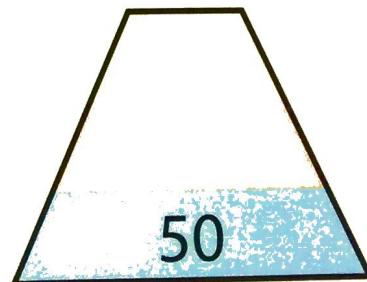
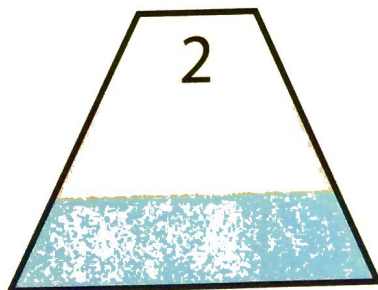
4 Look at the number blocks below.

Each block uses two rules.

The two rules are the same for every block.



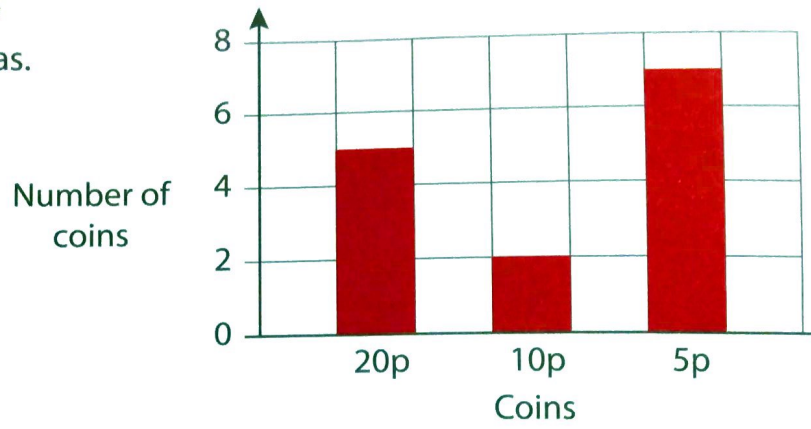
Use the two rules to write the missing numbers below.



3m

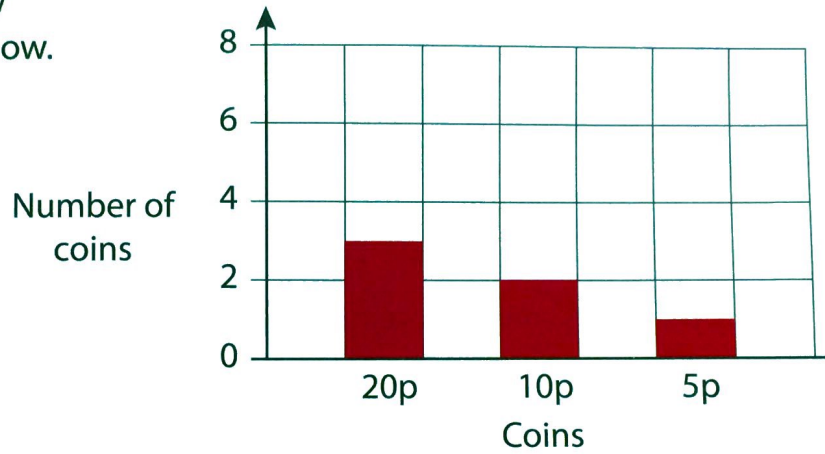
TOTAL

- 5 The chart shows how many coins Megan has.




Megan buys a pencil.

This chart shows how many coins she has now.



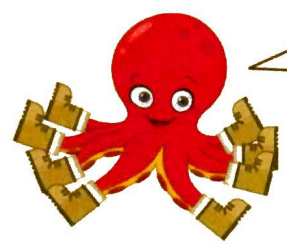
How much does the pencil cost?



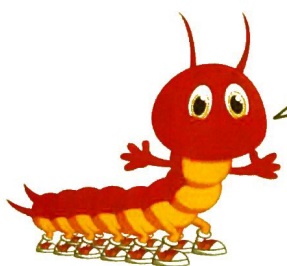
p



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.

A large rectangular area with a red border, intended for students to show their work. In the top-left corner, there is a small icon of a notepad with a pencil.