REASONING 6ER17

First name
Last name
School
Class
Date of birth OOOOO
Date of test 0 0 5 2 0 1 7
Total score (maximum 20)









Rules

dog beats cat cat beats mouse mouse beats dog



Scoring each round

win: 2 points

draw: 1 point each

lose: 0 points

After 2 rounds, what could the scores be?

Show all possible pairs of answers. One pair is done for you.

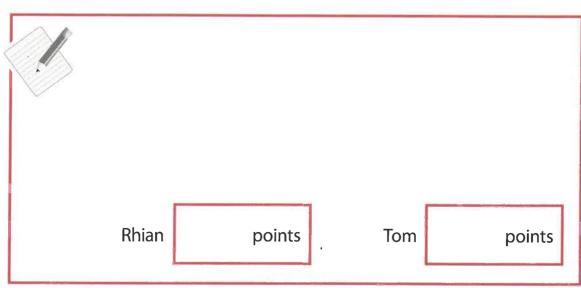
Rhian's score	Tom's score	
0	4	

After 8 rounds, Rhian says:



I won 6 and drew 1 of the 8 rounds.

What are their scores?



Rules

dog beats cat cat beats mouse mouse beats dog



Scoring each round

win: 2 points draw: 1 point each

lose: 0 points

The next day they play again, starting with a score of 0





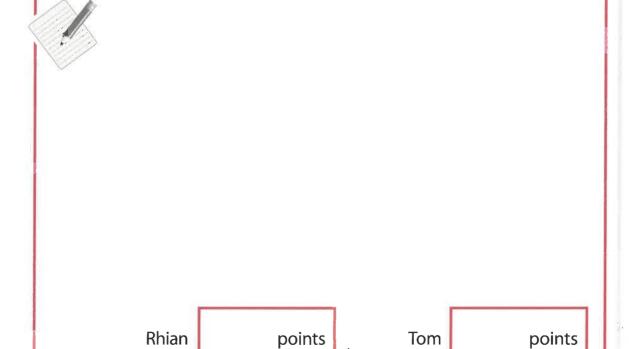
I will always choose in this order: **dog**, **cat**, **mouse**, **dog**, **cat**, **mouse**, and so on.

Tom



I will always choose cat.

What are their scores after 15 rounds?







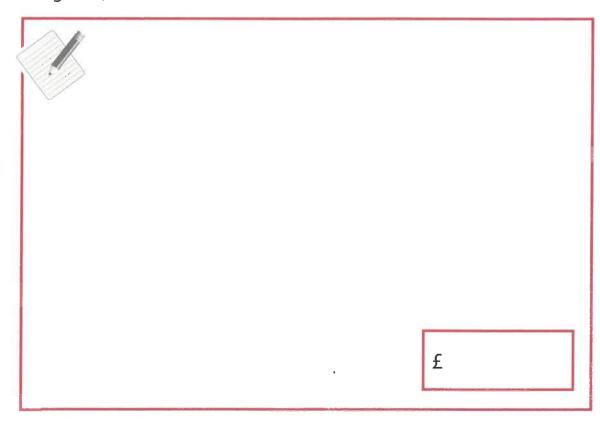
Meg sells birthday cakes with candles to show the ages, e.g.

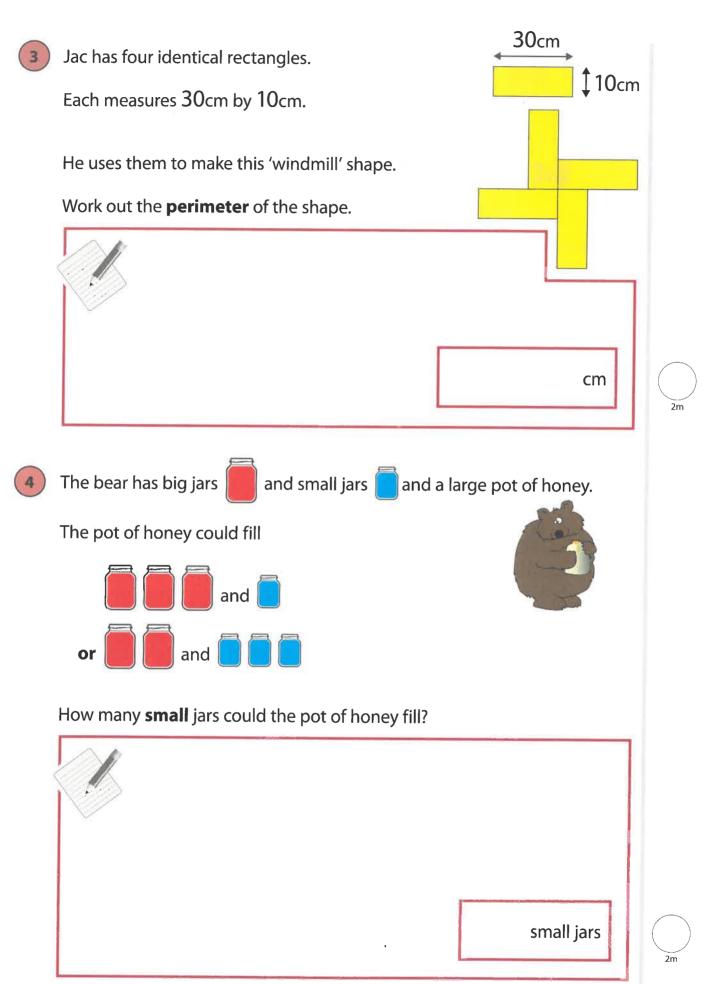


Information about the candles:



Meg makes one cake for each year from age 1 to age 16 Altogether, how much do the candles cost?











represent numbers.

What are the numbers?

















and represent other numbers.





What are the numbers?









Year 6 children buy St David's day mugs, and pencils to put in the mugs.

Then they sell the mugs and pencils and give the profit to charity.

What the children buy	Small mug	Big mug	Pencils
Cost	£1.95 each	£2.85 each	10p each
Number	20	15	170

What the children sell	Small mug with 4 pencils	Big mug with 6 pencils	
Price	£3.50 each	£5.50 each	
Number	19	13	

How much money do the children give to charity?

