



Aberdare Community School
Mathematics Department

WJEC GCSE

Foundation – Non Calculator
Number

Negative numbers

Name:

Set:

Date:

Teacher:

6. The table below shows the scores in the final of the Langford Bay Golf Championship. The player with the lowest score wins the championship.

Name	Score
A. Jenkins	-2
H. Smith	8
J. Evans	1
L. Hakami	-3
F. Loxley	-7
P.J. Ames	5
G. Francis	-1



- (a) The table below lists some of the names and scores of the players in order from 1st place to 7th place. Complete the table.

[3]

Position	Name	Score
1 st		
2 nd	L. Hakami	-3
3 rd		
4 th		
5 th	J. Evans	1
6 th	P.J. Ames	5
7 th		

- (b) What was the difference between the scores of the players in 2nd and 6th places?

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 [1]

- (c) Which two players had a difference in their score of 5?

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 [1]

8. The following table shows four places and their height above sea level.

Place	Height above sea level (in metres)
Llyn Cowlyd, Wales	355
Chott Melrhir, Algeria	-40
Lake Eyre, Australia	-15
The Fens, England	-4

- (a) Explain what it means to write the height of Lake Eyre above sea level as -15 .

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[1]

- (b) Which place is the lowest of the four?

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[1]

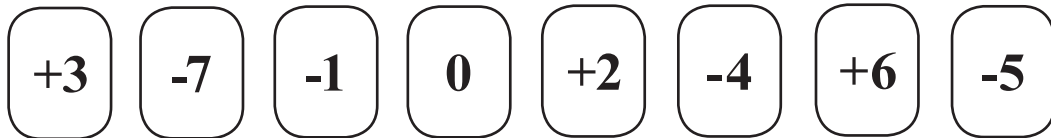
- (c) How much higher than Chott Melrhir is Llyn Cowlyd?

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[1]



5. In a game, a player is asked to select as many cards as possible from the ones shown below and add together the numbers on the selected cards to make a total.



Using as many cards as possible, show how a player could achieve a total of -2 .

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[3]

7. The following table shows, for five different places,
- the temperatures at midday on 2 different days,
 - the change of temperature between the 2 days.
- Complete the table.

Place	Temperature on day 1	Temperature on day 2	Change in temperature
Bangor	-4	2	up 6
Toronto	3	-2	
Glasgow	-1		down 3
Moscow	-2	-6	
Reykjavik		-5	up 2

[4]

6. *You will be assessed on the quality of written communication in this question.*

Nia and Charlotte each play a game where the points are scored as follows:

Each win +6 points
Each loss -4 points

Nia wins 5 games and loses 3 games.
Charlotte wins 3 games and loses 5 games.
What is the difference in their final scores?

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[7]

7. In a game, a person scores

- 3 points for a win,
- 1 point for a draw,
- -2 points for a loss.

(a) Geraint plays the game **four times**.
 He wins twice, draws once and loses once.
 What is Geraint's score?

[2]

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(b) Mary plays the game **four times** and has a final score of 0.
 Write down the number of wins, draws and losses Mary had and justify your answer. [2]

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(c) John plays the game **five times** and has a final score of -4.
 Write down the number of wins, draws and losses John had and justify your answer. [2]

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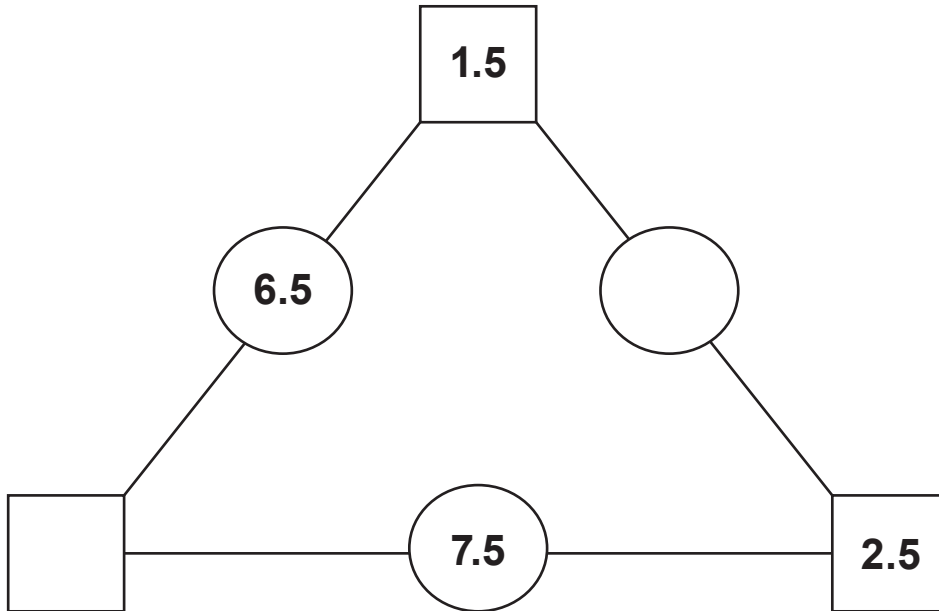
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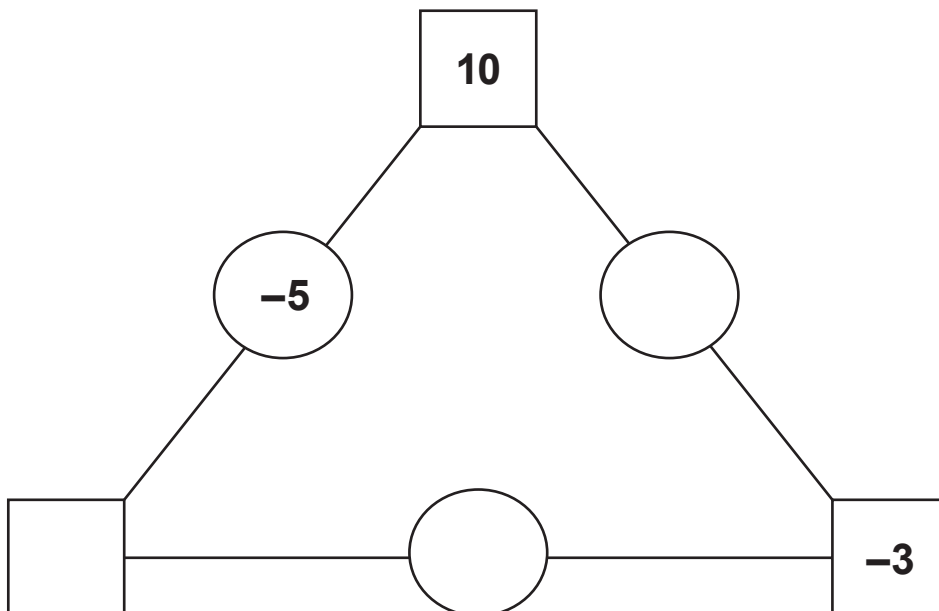
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4. (a) The number in each circle is equal to the sum of the two numbers in the squares on either side of the circle.
Fill in the missing numbers in each of the following diagrams.



[2]



[3]