

Problem of the Week Problem B

Fun and Games

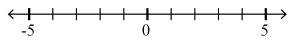
Mariana's trivia team is playing a game against other teams. The game includes 10 questions, and each team is given 5 points to start. Teams then earn 4 points for each correct answer, and lose 3 points for each incorrect answer.



(a) The table shows the score card for Mariana's team.

(The trivia questions were tough!) In the right column, fill in their running score, which is their current score after each question.

Note that their running score may be positive or negative, like a temperature reading. You may find the following number line helpful.



Question	Result	Running Score
_	_	5
1	X	
2	X	
3	X	
4	✓	
5	X	
6	✓	
7	X	
8	√	
9	X	
10	✓	

(b) The winning team had a score of 10. How many questions did they get correct?

EXTENSION: What is the maximum possible score? What is the minimum possible score? Are all the integers in between these values possible scores? Explain.

THEME: NUMBER SENSE