

DIRECTED NUMBERS PPA'S

Answers

3

1 In a quiz, each contestant is asked 4 questions. Contestants score 3 points for each correct answer, -2 points for each incorrect answer and 0 if they pass (do not offer an answer).

(a) What is the score of a contestant who answers the first 3 questions correctly and answers the fourth incorrectly?
 $3 + 3 + 3 - 2 = 7$

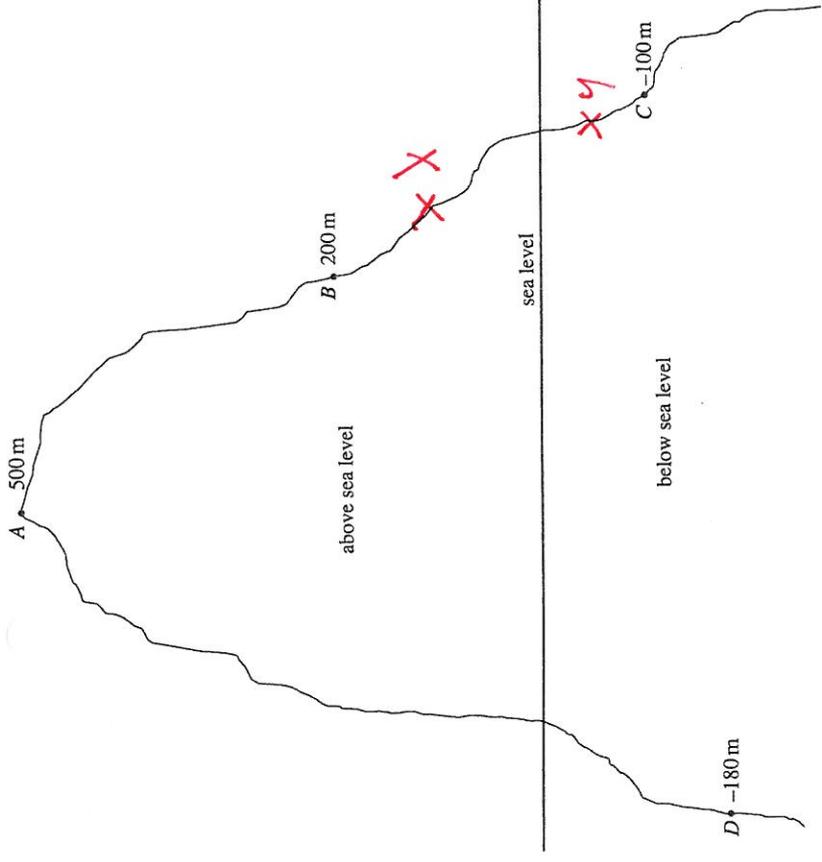
(b) What is the score of a contestant who answers the first question correctly, passes on the second question and answers the last two incorrectly?
 $3 + 0 - 2 - 2 = -1$

(c) Lesley did the quiz and answered the first question correctly. Her final score was -3. Explain fully how this happened.
 $3 - 2 - 2 - 2 = -3$
 so 1st correct, rest incorrect

2 (a) One day, the temperature in Swansea at 10.00 am was 4°C. By 3.00 pm the temperature had risen by 8°C. What was the temperature at 3.00 pm?
 $4 + 8 = 12^{\circ}\text{C}$

(b) One day, the temperature in Bangor at 2.00 pm was 5°C. At 11.00 pm the temperature had dropped by 9°C. What was the temperature at 11.00 pm?
 $5 - 9 = -4^{\circ}\text{C}$

(c) The temperature inside a freezer was -25°C. The electricity went off for a couple of hours and the temperature in the freezer became -18°C. By how many degrees did the temperature change?
 Risen by 7



The diagram illustrates a mountain that is partly above sea level and partly below sea level. The point A is 500 m above sea level. The point C is 100 m below sea level and its height is shown as -100 m on the diagram.

- (a) On the diagram
- (i) mark a point X that is 100 m above sea level,
 - (ii) mark a point Y that is 50 m below sea level.

(b) How much higher is the point B than the point C?
 300 M

(c) The point E is 40 m below the level of D. Write down its height above sea level.
 -220 M