FOUNDATION

1.8 Negative Numbers: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Ben was asked to work out -8 + 3. Ben's answer was 11.

(a) Ben's answer is wrong. Write down the correct answer. **(1)**

.....

(b) Explain the mistake that Ben has made. **(1)**

.....

(Total for Question 1 is 2 marks)

2 Work out the value of each of the following.

(a) -3 + 7 **(1)**

.....

(b) -5 - 2 **(1)**

.....

(c) 4 - 9 **(1)**

.....

(Total for Question 2 is 3 marks)

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3 The temperature at midnight in Kendal was -6°C. The temperature at midday was 9°C.

(a) Work out the difference between the two temperatures. **(2)**

.....

(b) By 6pm the temperature had fallen by 14°C from midday. Work out the temperature at 6pm. **(2)**

.....

(Total for Question 3 is 4 marks)

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Mark scheme · 1.8 Negative Numbers: 10-minute Pack

Question 1

(a) -5 cao **B1**

(a) Answer: -5

(b) correct explanation oe, e.g. 'he added 8 and 3 instead of finding the difference between them, and did not keep the negative sign' or equivalent valid reasoning **B1**

(b) Answer: Ben added 8 and 3 (getting 11) instead of correctly combining -8 and +3, which gives -5.

Question 2

(a) 4 cao **B1**

(a) Answer: 4

(b) -7 cao **B1**

(b) Answer: -7

(c) -5 cao **B1**

(c) Answer: -5

Question 3

(a) 9 - (-6) oe, or correct method shown on a number line/scale **M1**

(a) 15 (°C) cao **A1**

(a) Answer: 15°C

(b) 9 - 14 oe **M1**

(b) -5 (°C) cao **A1**

(b) Answer: -5°C

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