



THIRD SPACE
LEARNING

GCSE Exam Questions

Adding and Subtracting
Negative Numbers | Number

GCSE Exam Questions: Adding and Subtracting Negative Numbers

1) (a) Calculate $4 - 7$

(1)

(b) Calculate $12 + - 4$

(1)

(c) Calculate $- 5 - 3$

(1)

(d) Calculate $- 12 + 31$

(1)
(4 marks)

GCSE Exam Questions: Adding and Subtracting Negative Numbers

- 2) The temperature was recorded at different times on 1st January.

Time	Temperature
Midnight	-6°C
4am	-10°C
8am	-4°C
Noon	7°C
3pm	6°C
7pm	-2°C

- (a) Write down the highest temperature.

----- $^{\circ}\text{C}$
(1)

- (b) Write down the lowest temperature.

----- $^{\circ}\text{C}$
(1)

- (c) Work out the difference in temperature between 4am and 8am.

----- $^{\circ}\text{C}$
(1)

- (d) Work out the difference in temperature between 3pm and 7pm.

----- $^{\circ}\text{C}$
(1)

- (e) At 11pm that day the temperature had fallen by 5°C from its value at 7pm.

Work out the temperature at 11pm.

----- $^{\circ}\text{C}$
(1)

(5 marks)

GCSE Exam Questions: Adding and Subtracting Negative Numbers

3) Below is an arithmetic number sequence:

$$\underline{\quad y \quad} \quad \underline{\quad - 3 \quad} \quad \underline{\quad - 7 \quad} \quad \underline{\quad x \quad}$$

(a) What is the term to term rule for this sequence?

(1)

(b) Calculate the value of x .

(1)

(c) Calculate the value of y .

(1)
(3 marks)

GCSE Exam Questions: Adding and Subtracting Negative Numbers Answers

	Question	Answer	Marks														
1) (a)	Calculate $4 - 7$	(a) $- 3$	(1)														
(b)	Calculate $12 + - 4$	(b) 8	(1)														
(c)	Calculate $- 5 - 3$	(c) $- 8$	(1)														
(d)	Calculate $- 12 + 31$	(d) 19	(1)														
2)	The temperature was recorded at different times on 1st January.<table><tr><th>Time</th><th>Temperature</th></tr><tr><td>Midnight</td><td>-6°C</td></tr><tr><td>4am</td><td>-10°C</td></tr><tr><td>8am</td><td>-4°C</td></tr><tr><td>Noon</td><td>7°C</td></tr><tr><td>3pm</td><td>6°C</td></tr><tr><td>7pm</td><td>-2°C</td></tr></table>	Time	Temperature	Midnight	-6°C	4am	-10°C	8am	-4°C	Noon	7°C	3pm	6°C	7pm	-2°C		
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(a)	Write down the highest temperature.	(a) $7^{\circ} C$	(1)														
(b)	Write down the lowest temperature.	(b) $- 10^{\circ} C$	(1)														
(c)	Work out the difference in temperature between 4am and 8am.	(c) $6^{\circ} C$	(1)														
(d)	Work out the difference in temperature between 3pm and 7pm.	(d) $8^{\circ} C$	(1)														
(e)	At 11pm that day the temperature had fallen by $5^{\circ} C$ from its value at 7pm. Work out the temperature at 11pm.	(e) $- 7^{\circ} C$	(1)														

GCSE Exam Questions: Adding and Subtracting Negative Numbers Answers

	Question	Answer	Marks
3)	Below is an arithmetic number sequence: $\begin{array}{cccc} y & -3 & -7 & x \\ \hline \end{array}$		
(a)	What is the term to term rule for this sequence?	(a) Subtract 4 (or - 4)	(1)
(b)	Calculate the value of x .	(b) $-7 - 4 = -11$	(1)
(c)	Calculate the value of y .	(c) $-3 + 4 = 1$	(1)

Where to go next?

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