Name	Date

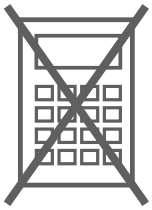
GCSE Mathematics 9-1

Negative Numbers

(Non-Calculator)

Exam-Style Topic Paper	Total Marks
Time: 51 minutes	**/ 45**

Instructions



- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name and date number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may **not** be used.

Information

- The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

1 Work out $-3 + 7$

.....

[1 mark]

2 Work out $5 - 9$

.....

[1 mark]

3 Work out $-6 - 4$

.....

[1 mark]

4 Work out $-2 + -5$

.....

[1 mark]

5 Work out $8 - -3$

.....

[1 mark]

6 Work out $-7 - -2$

.....

[1 mark]

7 Work out 4×-6

.....

[1 mark]

8 Work out -5×-3

.....

[1 mark]

9 Work out $-24 \div 6$

.....

[1 mark]

10 Work out $-36 \div -9$

.....

[1 mark]

11 Work out $45 \div -5$

.....

[1 mark]

12 Work out $-3 + -4 + -5$

.....

[1 mark]

13 Work out $-6 - -2 - 5$

.....

[1 mark]

14 Work out $-8 + -3 - 4$

.....

[1 mark]

15 Work out $7 - -2 + -6$

.....

[1 mark]

16 Work out $-5 - -9 + -1$

.....

[1 mark]

17 Work out $-2 \times 3 \times -4$

.....

[1 mark]

---

18 Work out $-2 \times -3 \times -5$

.....

[1 mark]

---

19 Work out $-40 \div -8 \times -3$

.....

[2 marks]

---

20 Work out $-12 \div 4 - -7$

.....

[2 marks]

---

21 Fill in the missing number.

..... $+ 3 = 1$

[1 mark]

---

22 Fill in the missing number.

$6 -$ ..... $= 10$

[1 mark]

---

23 Fill in the missing number.

..... $\times -4 = 28$

[1 mark]

24 Fill in the missing number.

$-35 \div$ ..... $= 7$

[1 mark]

25 Fill in the missing number.

$-9 -$ ..... $= -3$

[1 mark]

26 Fill in the missing number.

..... $- 8 = -15$

[1 mark]

27 At 6 am the temperature was -4 °C.
By midday the temperature had risen by 9 degrees.
What was the temperature at midday?

..... °C

[1 mark]

28 At midnight the temperature was 3 °C.
By 5 am the temperature had fallen by 8 degrees.
What was the temperature at 5 am?

..... °C

[1 mark]

---

29 The table shows the temperature in five cities on one day in January.

City	Temperature (°C)
Oslo	−7
Moscow	−12
London	4
Cairo	21
New York	−2

(a) Which city was the coldest?

.....

[1 mark]

(b) Work out the difference between the temperature in Cairo and the temperature in Moscow.

..... degrees

[1 mark]

(c) Work out the difference between the temperature in Oslo and the temperature in New York.

..... degrees

[1 mark]

---

30 The temperature inside a freezer is −18 °C.
The temperature inside a fridge is 4 °C.
How many degrees warmer is the fridge than the freezer?

..... degrees

[1 mark]

---

31 Sam has £45 in his bank account.
He pays a bill of £70
He is then paid £60
How much money is in Sam's bank account now?

.....

[2 marks]

---

32 Mia's bank balance is −£120
She pays £85 into her account.
What is her bank balance now?

.....

[1 mark]

---

33 A lift in a shopping centre is on floor −2
It goes up 7 floors and then down 4 floors.
Which floor is the lift on now?

.....

[2 marks]

34 A diver is 15 m below sea level. This is written as −15 m.
The diver swims up 6 m and then down 11 m.
Where is the diver now?
Give your answer as a negative number.

..... m

[2 marks]

35 In a quiz, you get 3 points for a correct answer and −2 points for a wrong answer.
Ali gets 6 answers correct and 8 answers wrong.
What is Ali's total score?

..... points

[2 marks]

36 At 8 pm the temperature was 5 °C.
The temperature then fell by 3 degrees every hour.
What was the temperature at 1 am?

..... °C

[2 marks]