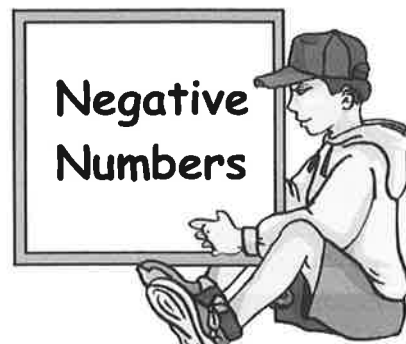
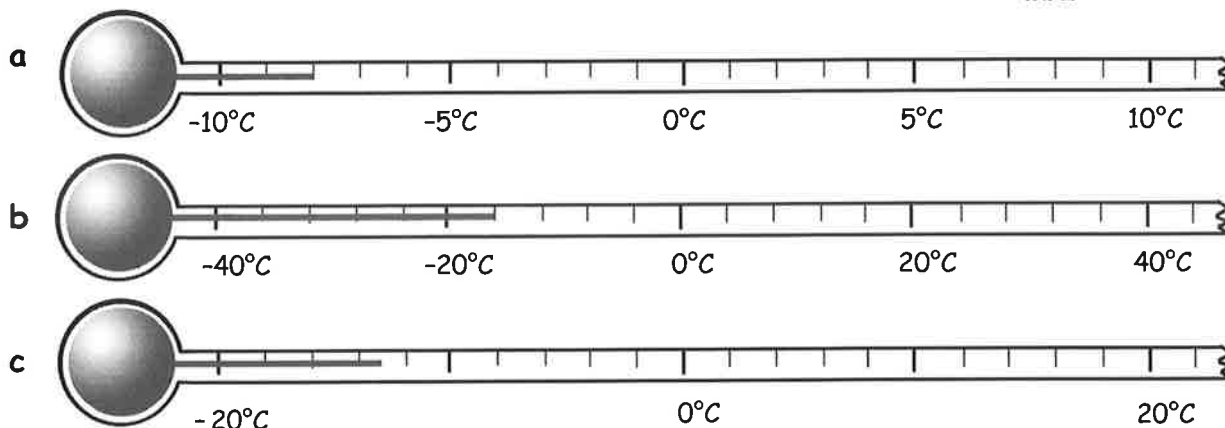


CHAPTER 8



Exercise 1

1. What temperatures are shown below ?



2. a Nicola's online banking account shows that she has (£310).
She withdraws £312 from the account. What will her balance show up as now ?
- b Last month, Aaron's bank balance stood at (-£230.00).
He withdrew a further £75. What was his balance then ?
- c Jed's online banking account shows that he has (£39.65).
He buys a jacket with a debit card for £29.50 and signs a cheque for £12.35 to buy a tie.
He later goes on to his online account. What will his statement be showing ?
- d Julia's balance last week was (-£72). She used her debit card for £90 on the same day as her monthly pay of £899 was paid into her bank.
What was her new balance ?




Exercise 2

1. What is the temperature that is :-
- | | | |
|----------------------|-----------------------|-------------------------|
| a 6°C up from 14°C | b 19°C up from 0°C | c 22°C up from 7°C |
| d 9°C down from 15°C | e 13°C down from 23°C | f 5°C up from -1°C |
| g 8°C down from -2°C | h 13°C up from -5°C | i 8°C down from 1°C |
| j 15°C down from 0°C | k 14°C up from -9°C | l 15°C down from -8°C ? |

2. One winter's day in Peebles, the temperature was -7°C .
In Dingwall it was 5° colder.
What was the temperature in Dingwall ?



3.  Whilst on holiday in Africa, I noticed the temperature fell from 41°C late morning to -7°C in the evening.
By how much had the temperature fallen ?

4. Write each set of temperatures in order, **coldest** first :-
a 9°C , -7°C , -19°C , 0°C , 7°C , -3°C .
b -31°C , -10°C , -18°C , -38°C , 1°C , -1°C .

Exercise 3

1. Write down each question first, then the answer :-

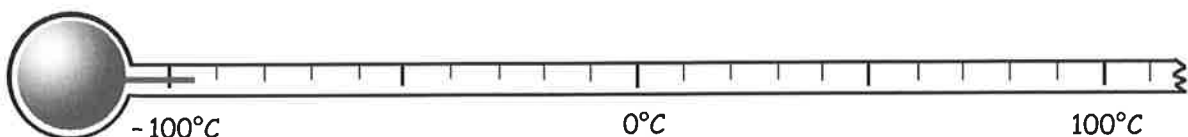
- | | | | | | | | |
|---|-----------------|---|----------------|---|--------------|---|----------------|
| a | $9 + 7$ | b | $6 + 14$ | c | $11 + 19$ | d | $8 + (-6)$ |
| e | $7 + (-6)$ | f | $15 + (-14)$ | g | $6 + (-9)$ | h | $3 + (-11)$ |
| i | $0 + (-17)$ | j | $(-3) + 16$ | k | $(-8) + 8$ | l | $(-5) + 23$ |
| m | $(-8) + 5$ | n | $(-21) + 13$ | o | $6 + (-19)$ | p | $(-3) + (-16)$ |
| q | $(-10) + (-10)$ | r | $(-2) + (-16)$ | s | $(-19) + 11$ | t | $(-17) + 12$. |

2. Calculate :-

- | | | | | | |
|---|-------------------------|---|---------------------------|---|-------------------------|
| a | $5 + (-2) + 4$ | b | $5 + (-9) + 2$ | c | $(-8) + 4 + 3$ |
| d | $6 + (-9) + (-2)$ | e | $(-5) + (-1) + 7$ | f | $(-7) + (-4) + (-8)$ |
| g | $4 + (-24) - 20$ | h | $-200 - 400 - 600$ | i | $4 + 6 + (-8) + (-12)$ |
| j | $19 + (-21) + 7 + (-6)$ | k | $(-2) + (-4) + (-9) + 15$ | l | $90 + (20 - 30 - 40)$. |

Revision Exercise

1. What temperature is shown below ?



2. Albert's bank balance last month was (-£530).
His monthly wage of £1886 was then paid in, but he also paid his monthly TV/internet bill of £125.



What is Albert's new bank balance ?

3.



Daisy had £190 in her bank account before the weekend.
She withdrew £80 on Friday night and £120 while shopping on Saturday afternoon. She deposited £35 on Monday morning.
Write down Daisy's new bank balance.

4. Find :-

- | | | | | | | | |
|---|-----------------|---|----------------|---|---------------|---|-----------------|
| a | $7 + (-3)$ | b | $12 + (-12)$ | c | $(-1) + 11$ | d | $(-4) + 13$ |
| e | $(-15) + (-15)$ | f | $(-6) + (-16)$ | g | $(-25) + 27$ | h | $(-102) - 103$ |
| i | $(-1) - 8$ | j | $-13 - 20$ | k | $(-27) + 18$ | l | $(-112) + 107$ |
| m | $(-1) - 1$ | n | $-25 - 5$ | o | $(-19) + 27$ | p | $(-106) + 109$ |
| q | $(-200) - 100$ | r | $-300 - 34$ | s | $(-502) + 12$ | t | $(-703) + 103.$ |

5. The temperature at midday on a beach in Portugal was 36°C .
At midnight it had fallen to -4°C .



By how many degrees had the temperature fallen ?

6.



The coldest temperature ever recorded in England was -26°C .
(Newport Jan. 1982).
The warmest recorded was 38°C (Gravesend Aug. 2003).
Calculate the difference in temperature.

7. Calculate :-

- | | | | | | |
|---|-------------------------|---|---------------------------|---|---------------------------|
| a | $7 + (-9) + 2$ | b | $5 + (-10) + 7$ | c | $(-1) + 7 - 8$ |
| d | $0 - 11 + 11$ | e | $(-8) + (-6) + 12$ | f | $(-13) + (-7) + 24$ |
| g | $47 - 48 - 2$ | h | $-23 - 9 + 31$ | i | $-40 - 30 - 10$ |
| j | $8 + (-7) + 9 + (-6)$ | k | $(-1) + (-5) + (-7) + 18$ | l | $(-8) + 4 + (-3) + 6$ |
| m | $-2 - 5 + 3 - 11$ | n | $-4 + 5 + 12 - 13$ | o | $-21 + 30 - 20 + 8$ |
| p | $18 + (-22) + 8 + (-7)$ | q | $-2 - 6 - 8 + 11$ | r | $-1 - 1 - 11 + 111$ |
| s | $18 + (9 - 12 - 1)$ | t | $50 - (20 + 10 - 25)$ | u | $120 - (-80 - 20 + 110).$ |