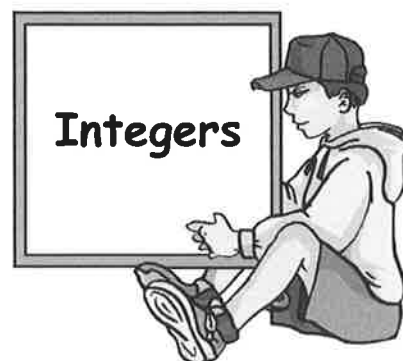
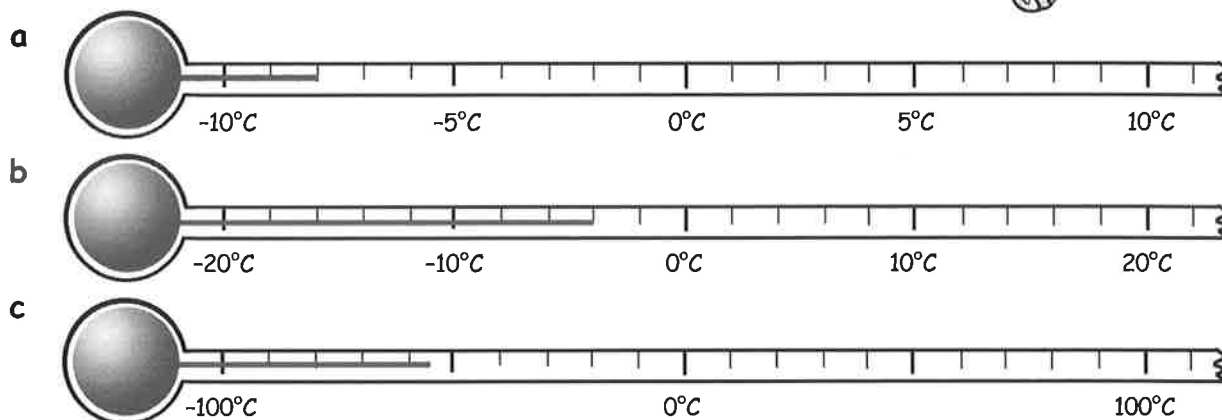


CHAPTER 4



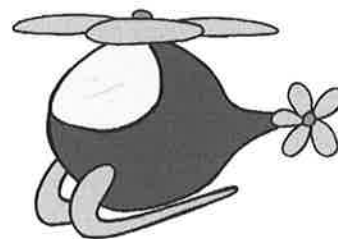
Exercise 1 Integers

1. What temperatures are shown on each thermometer?



2. a Bill has a bank balance of $-\pounds 45$. Explain what this means.
b Iritus Maximus was born 34 BC and died 45 AD. How old was he when he died?

3. A diver is 10 m below the surface of the water.
A helicopter is 100 m above the water.
How many metres is the diver below the helicopter?



4. Find the temperature that is :-
a 8°C up from -3°C . b 7°C down from 2°C
c 11°C up from -15°C d 8°C down from -6°C .

Exercise 2 Adding & Subtracting Integers



1. Find :-

- | | | | | | | | |
|---|---------------|---|-------------|---|--------------|---|-------------------|
| a | $11 - 12$ | b | $6 - 11$ | c | $(-3) + 5$ | d | $1 - 3$ |
| e | $(-9) + 9$ | f | $(-4) - 2$ | g | $(-6) - 7$ | h | $(-3) + (-1)$ |
| i | $(-121) + 21$ | j | $134 - 165$ | k | $(-30) - 40$ | l | $(-50) + (-40)$. |

2. a $34 - 121$ b $2.7 - 4.2$ c $8.7 + (-4.8)$ d $(-1.4) - 3.8$
e $11.6 - 13.7$ f $63.1 + (-36.1)$ g $(-12.1) + (-16.9) - 9.2$
h $11k - 12k$ i $111g - 121g$ j $15t + (-11t) - 3t + t$.

Exercise 3**Subtracting Negatives**

1. Find :-

- a $4 - (-2)$ b $8 - (-1)$ c $10 - (-5)$ d $70 - (-30)$
 e $(-3) - (-2)$ f $(-1) - (-1)$ g $(-8) - (-7)$ h $(-11) - (-6)$
 i $(-34) - (-21)$ j $(-121) - (-77)$ k $73 - (-54)$ l $(-243) - (-233)$.

2. Find :-

- a $4x - (-2x)$ b $7y - (-4y)$ c $23k - (-14k)$ d $156i - (-127g)$
 e $111d - (-88d)$ f $(-3w) - (-4w)$ g $(-40j) - 11j - (-20j)$.

Exercise 4**Multiplying/Dividing Negatives**

1. Find :-

- a $3 \times (-2)$ b $8 \times (-1)$ c $12 \times (-5)$ d $10 \times (-30)$
 e $(-3) \times 4$ f $(-1) \times 6$ g $(-8) \times 7$ h $(-11) \times 4$
 i $(-9) \div 3$ j $(-121) \div 11$ k $72 \div (-9)$ l $243 \div (-3)$.

2. Find :-

- a $(-4) \times (-2)$ b $(-3) \times (-4)$ c $(-7) \times (-9)$ d $(-11) \times (-12)$
 e $15 \div (-5)$ f $(-30) \div (-5)$ g $(-40) \div (-8)$ h $(-243) \div (-3)$.

3. Find :-

- a $(-11 + 3) \times 2$ b $(7 - 11) \times 5$ c $(-1)^{17}$ d $(-1) \times (-7) \times (-2)$.

Exercise 5**Mixed Exercise**

1. Find :-

- a $-3 + 8$ b $8 - (-2)$ c $9 + (-3) - (-5)$
 d $5 \times (-4)$ e $(-3) \times 6$ f $(-5) \times (-7)$ g $35 \div (-5)$
 h $(-64) \div (-8)$ i $(-1)^{191}$ j $(-1)^9 \times (-1)^{11}$ k $(-10) \times (-1) \div (-2)$.

2. For every 100 m a weather balloon rises the temperature drops by 2.5°C .

If at ground level the temperature is 11°C , what would the temperature be at a height of 2.1 km ?



