1 Here is a list of numbers

13 14 18 23 30 36

From the numbers in the list, write down

(i) an odd number

.....

(1)

(ii) the multiple of 4

.....

(1)

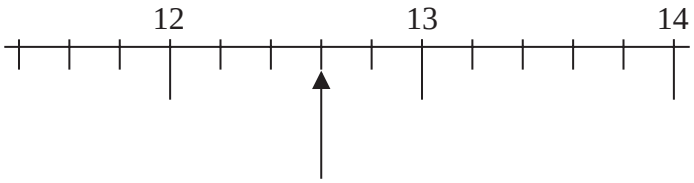
(iii) the factor of 28

.....

(1)

(Total for Question 1 is 3 marks)

2 The diagram shows part of a number line.

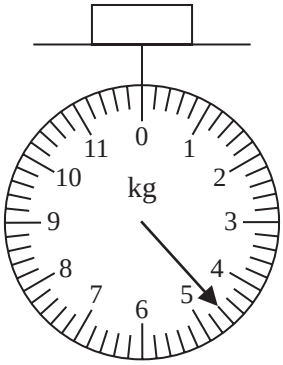


(a) Write down the number marked with the arrow.

.....

(1)

The diagram shows a parcel on weighing scales.



The parcel weighs less than 6 kg.

(b) How many kilograms less?

..... kilograms

(1)

(c) Change 7.6 metres into centimetres.

..... centimetres

(1)

(d) Change 91 600 millilitres into litres.

..... litres

(1)

Ivan goes to the gym at 7 15 pm.

(e) Write this time using the 24-hour clock.

.....

(1)

(Total for Question 2 is 5 marks)

3 The table shows the length, in kilometres, of the coastline of each of five oceans.

Ocean	Length (kilometres)
Arctic	45 389
Atlantic	111 866
Indian	66 526
Pacific	135 663
Southern	17 968

(a) Which of these oceans has the greatest length of coastline?

.....

(1)

(b) Write the number 17 968 in words.

.....

(1)

(c) Write the number 66 526 correct to the nearest thousand.

.....

(1)

(d) Work out the total length of the coastlines of the Arctic Ocean and the Pacific Ocean.

..... kilometres

(1)

(Total for Question 3 is 4 marks)

4 The table shows the heights, in metres, of five mountains.

Mountain	Height (metres)
Aconcagua	6961
Makalu	8485
Kilimanjaro	5895
Mont Blanc	4810
Puncak Jaya	4884

(a) Which of these mountains has the greatest height?

.....

(1)

(b) Write the number 5895 in words.

.....

(1)

(c) Write down the value of the 8 in 4810

.....

(1)

(d) Work out the difference between the height of Aconcagua and the height of Puncak Jaya.

..... metres

(1)

(Total for Question 4 is 4 marks)

5 The table shows the height, in metres, of each of seven volcanoes.

Volcano	Height (metres)
Acamarachi	6046
Bazman	3490
Dona Juana	4150
Kamen	4585
Mount Ararat	5137
Ojos del Salado	6893
Semeru	3676

(a) Which of these volcanoes has the greatest height?

.....

(1)

(b) Write down the value of the 8 in the number 4585

.....

(1)

(c) Write the number 6046 in words.

.....

(1)

(d) Write the number 5137 correct to the nearest hundred.

.....

(1)

(e) Work out the difference in the height of the Acamarachi volcano and the height of the Semeru volcano.

..... metres

(1)

(Total for Question 5 is 5 marks)

6 Here is a list of numbers in a box.

6	8	17	36	44	76	91

From the numbers in the list, write down

(a) a multiple of 11

.....

(1)

(b) a factor of 30

.....

(1)

(c) a square number

.....

(1)

(d) a prime number

.....

(1)

(e) two numbers whose sum is 84

..... and .....

(1)

(Total for Question 6 is 5 marks)

7 The temperature in New York is –2 °C

At the same time, the temperature in Rabat is 16 °C higher than the temperature in New York.

(a) Work out the temperature in Rabat.

.....°C

(1)

Also, at the same time, the temperature in Helsinki is 17 °C lower than the temperature in New York.

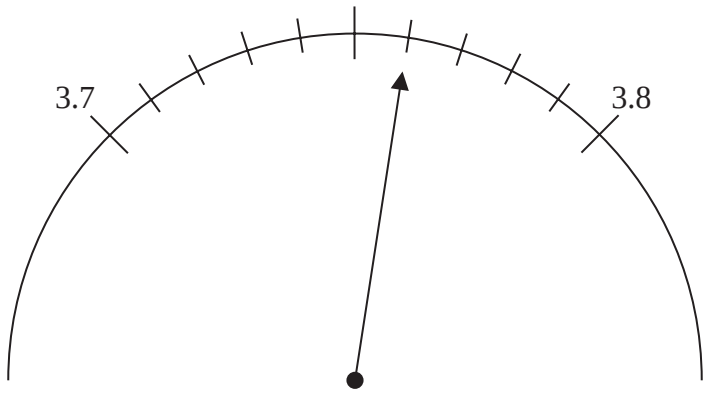
(b) Work out the temperature in Helsinki.

.....°C

(1)

(Total for Question 7 is 2 marks)

8

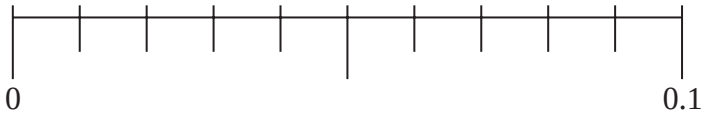


(a) Write down the number marked with the arrow on the scale above.

.....

(1)

(b) Mark with an arrow (↑) the number 0.04 on the scale below.



(1)

(c) Write the number 5.68 correct to one decimal place.

.....

(1)

(Total for Question 8 is 3 marks)

9 Nav found the following table that shows the age, in years, of each of seven cities.

City	Age (years)
Cadiz	3124
Suzhou	2534
Jenin	4469
Istanbul	2704
Nanjing	2516
Gaziantep	5669
Alexandria	2351

(a) Write down the name of the city with the greatest age.

.....

(1)

(b) Write the number 2534 in words.

.....

(1)

(c) Write the number 2351 correct to the nearest ten.

.....

(1)

(d) Work out the difference between the age of Cadiz and the age of Nanjing.

..... years

(1)

A millennium is 1000 years.

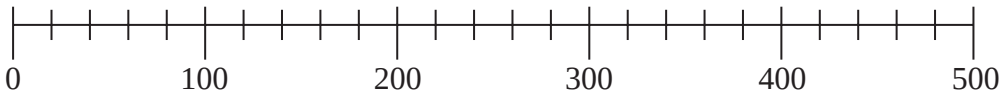
(e) What is the age of Jenin in whole millenniums?

..... millenniums

(1)

(Total for Question 9 is 5 marks)

10 Here is a scale.



(b) On the scale, mark with an arrow (↑) the number 360

(1)

(Total for Question 10 is 1 mark)

11

10	15	23	25	27	28	33	35

(a) From the numbers in the box, write down

(i) an even number

.....

(ii) a multiple of 9

.....

(iii) a prime number

.....

(3)

Here are four cards.
Each card has a number on it.
The four cards are arranged to make the number 7358

7	3	5	8

(b) (i) Show how the four cards can be arranged to make the smallest number using all four cards.

(ii) Show how the four cards can be arranged to make a correct calculation below.

		+		= 95

(2)

(Total for Question 11 is 5 marks)

12 The table gives the total area of forest in each of six countries.

Country	Area of forest (km^2)
South Africa	92 410
Denmark	5871
El Salvador	2870
Bahamas	5150
Jamaica	3371
Syria	4910

(a) Which of these six countries has the least total area of forest?

.....

(1)

(b) Write down the value of the 4 in 92 410

.....

(1)

Two of the six countries each have a total area of forest of 5000 km^2 when rounded to the nearest thousand.

(c) Write down the name of the two countries.

..... and .....

(1)

(d) Write the number 3371 in words.

.....

(1)

(Total for Question 12 is 4 marks)

13 The table shows the average annual rainfall, in mm, for each of five countries.

Country	Average annual rainfall (mm)
Colombia	3240
Jamaica	2051
Brazil	1761
Japan	1668
France	867

(a) Write the number 2051 in words.

.....

(1)

(b) Write the number 1668 correct to the nearest hundred.

.....

(1)

The average annual rainfall for Colombia is more than the average annual rainfall for Brazil.

(c) How much more?

..... mm

(1)

The average annual rainfall for Nigeria was 283 mm more than the average annual rainfall for France.

(d) Work out the average annual rainfall for Nigeria.

..... mm

(1)

(Total for Question 13 is 4 marks)

14 Here is a list of numbers.

3 8 9 14 23 28 30

(a) From the numbers in the list, write down

(i) a cube number

.....

(1)

(ii) a factor of 70

.....

(1)

(iii) a multiple of 6

.....

(1)

(iv) a prime number.

.....

(1)

(Total for Question 14 is 4 marks)

15 The table below shows the maximum recorded temperature and the minimum recorded temperature on one day in each of four countries.

Country	Maximum recorded temperature	Minimum recorded temperature
Morocco	19 °C	11 °C
Qatar	21 °C	18 °C
Finland	−19 °C	−28 °C
Canada	8 °C	−40 °C

(a) Which country has the highest maximum recorded temperature?

.....

(1)

(b) Work out the difference between the maximum recorded temperature in Finland and the minimum recorded temperature in Finland.

..... °C

(1)

On the same day, the minimum recorded temperature in Japan is 15 °C lower than the minimum recorded temperature in Morocco.

(c) Work out the minimum recorded temperature in Japan.

..... °C

(1)

(Total for Question 15 is 3 marks)

16 Here is a list of numbers.

2 8 14 15 16 18 20

From this list, write down

(a) the odd number

.....

(1)

(b) the multiple of 6

.....

(1)

(c) the square number

.....

(1)

(d) the prime number

.....

(1)

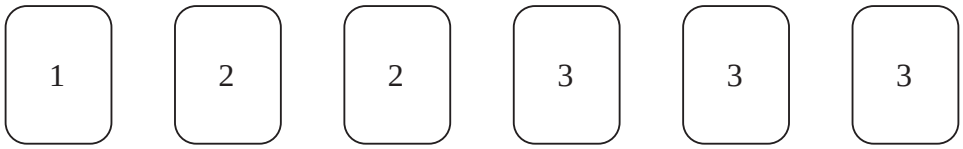
(e) two numbers with a sum of 26

.....

(1)

(Total for Question 16 is 5 marks)

17 Here are 6 counters.
Each counter has a number on it.



Finn takes at random one of these counters.

(i) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with the number 2 on it.

impossible	unlikely	evens	likely	certain

(ii) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with the number 3 on it.

impossible	unlikely	evens	likely	certain

(iii) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with a number greater than 4 on it.

impossible	unlikely	evens	likely	certain

(Total for Question 17 is 3 marks)

18 The table gives information about six plays written by William Shakespeare.

Play	Number of words	Year written
The Taming of the Shrew	21 055	1592
Henry V	26 119	1599
Hamlet	30 557	1602
Macbeth	17 121	1606
Julius Caesar	19 703	1599
King John	20 772	1596

(a) Which of these six plays has the greatest number of words?

.....

(1)

Two of these six plays were written in the same year.

(b) Write down the name of each of these plays.

..... and .....

(1)

The play Othello has 9329 more words in it than the play Macbeth.

(c) Work out the number of words in the play Othello.

.....

(1)

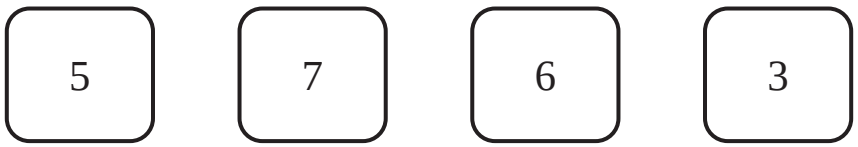
(d) Write the number 21 055 in words.

.....

(1)

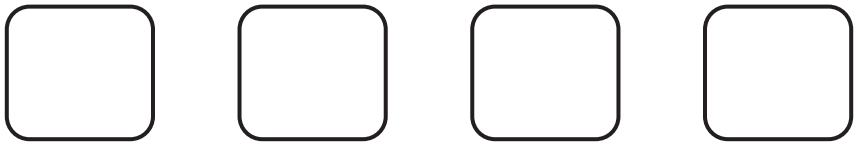
(Total for Question 18 is 4 marks)

19 Here are four cards.
Each card has a number on it.



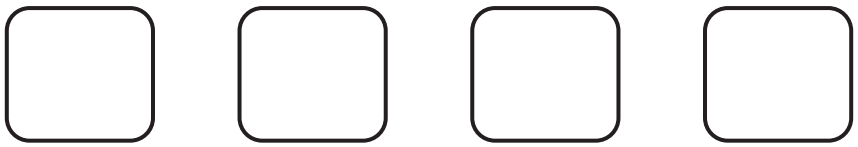
These four cards are arranged to make the number 5763

(a) Arrange the four cards to make the smallest possible number.



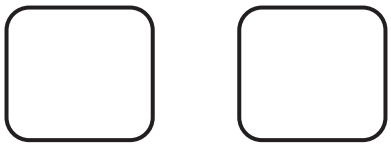
(1)

(b) Arrange the four cards to make the largest possible **even** number.



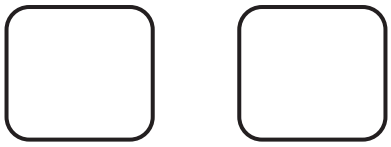
(1)

(c) Arrange two of the cards to make a prime number.



(1)

(d) Arrange two of the cards to make a multiple of 8



(1)

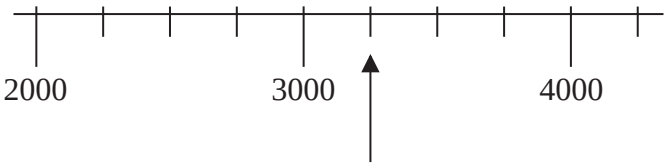
(Total for Question 19 is 4 marks)

20 Here is a number scale.

(a) On the scale, mark with an arrow (↑) the number 554

(1)

Here is a different number scale.



(b) Write down the number shown marked by the arrow.

.....

(1)

(Total for Question 20 is 2 marks)

21 The table shows the number of steps Polly walked on each of five days.

Day	Number of steps
Monday	8927
Tuesday	11362
Wednesday	9653
Thursday	10980
Friday	6411

(a) On which of these days did Polly walk the greatest number of steps?

.....

(1)

(b) Write the number 9653 in words.

.....

(1)

(c) Write the number 8927 correct to the nearest ten.

.....

(1)

(d) Write down the value of the 9 in the number 10980

.....

(1)

(e) Work out the sum of the number of steps Polly walked on Thursday and on Friday.

.....

(1)

(Total for Question 21 is 5 marks)

22

20	21	23	25	27	29

From the numbers in the box, write down

(a) (i) the even number,

.....

(1)

(ii) the square number.

.....

(1)

prime	square	cube	factor	product

(b) Complete the following statements by writing a suitable word from the box on each of the dotted lines.

(i) 343 is the ..... of 7

(1)

(ii) 9 is a ..... of 63

(1)

(Total for Question 22 is 4 marks)

23 The table shows the mean daytime temperature for each of five planets.

Planet	Temperature (°C)
Jupiter	–160
Mars	–30
Mercury	430
Neptune	–210
Venus	470

(a) Which of these five planets has the lowest mean daytime temperature?

.....

(1)

(b) Work out the difference between the mean daytime temperature for Jupiter and the mean daytime temperature for Venus.

..... °C

(1)

(Total for Question 23 is 2 marks)

24 Melanie finds this information about the number of people, in millions, who speak each of five languages as their first language.

Language	Number of people (in millions)
Spanish	480
Greek	13
Mandarin Chinese	918
Tamil	75
Japanese	128

(a) Which of these languages is the first language of the greatest number of people?

.....

(1)

More people speak Japanese as their first language than speak Greek as their first language.

(b) How many more?

..... million

(1)

The number of people who speak Tamil as their first language is $\frac{1}{4}$ of the number of people who speak Bengali as their first language.

(c) Work out the number of people who speak Bengali as their first language.

..... million

(1)

It is estimated that 861 700 people can speak Welsh.

(d) Write 861 700 in words.

.....

.....

(1)

(Total for Question 24 is 4 marks)

25 (a) Write in figures the number seven thousand and fifty four.

.....

(1)

(b) Write the number 78 263 correct to the nearest 100

.....

(1)

(c) Write down the value of the 7 in the number 673 000

.....

(1)

(d) Write a number in the box to make the calculation correct.

$9 \times \square = 18\,000$

(1)

(e) Write a number in the box to make the calculation correct.

$53.7 \div \square = 0.005\,37$

(1)

(Total for Question 25 is 5 marks)

26 Here is a list of numbers.

9 11 13 15 21 60

From the numbers in the list, write down

(a) the even number

.....

(1)

(b) the square number

.....

(1)

(c) the multiple of 7

.....

(1)

(d) the factor of 30

.....

(1)

(Total for Question 26 is 4 marks)