Adult Numeracy – Level 1

Question Paper

WHAT YOU NEED

- This Question Paper
- An Answer Sheet
- An HB Pencil
- An Eraser
- A ruler marked in mm and cm
- You may use a bilingual dictionary

- **Calculators may NOT be used**

Do NOT open this Question Paper until you are told to do so by the supervisor

THERE ARE 40 QUESTIONS IN THIS TEST
Total marks available: 40
Try to answer all the questions

TIME ALLOWED – 1 HOUR
Centres may, without prior approval of their awarding body, provide you with an additional 15 minutes in which to complete the test

INSTRUCTIONS TO CANDIDATES

- Ensure that your personal details are entered correctly on the Answer Sheet
- Read each question carefully
- Use an HB pencil and follow the instructions on how to complete the Answer Sheet
- At the end of the test, hand the Question Paper, the Answer Sheet and all notes to the supervisor

REMEMBER: YOU HAVE 1 HOUR TO FINISH THE TEST

Lee plans an event for 28 people. He wants to make a fruit drink.
He thinks that each person will have 3 glasses of fruit drink.

1 **If Lee is correct, how many glasses of fruit drink should he make?**

A 3

B 28

C 56

D 84

2 **Lee has a recipe for fruit drink that makes 15 glasses.**

Lee decides to make just enough for 75 glasses of fruit drink. How many millilitres (ml) of lemon juice will he need?

A 50ml

B 75ml

C 250ml

D 500ml

3 **25% of the people at the event do not like the fruit drink. How many do not like the fruit drink?**

  A   7
  B   10
  C   21
  D   25

4 **Lee asks each person for £3.95 towards the cost. Which method should he use to estimate how much money he will receive?**

  A   28 + £4.00
  B   28 − £4.00
  C   28 x £4.00
  A   28 ÷ £4.00

5 **The event starts at 6.45 p.m. and finishes at 9.15 p.m. How long does the event last?**

  A $1\frac{1}{2}$ hours
  B $2\frac{1}{2}$ hours
  C   3 hours
  D $3\frac{1}{2}$ hours

Questions 6 to 8 are about a nursery school.

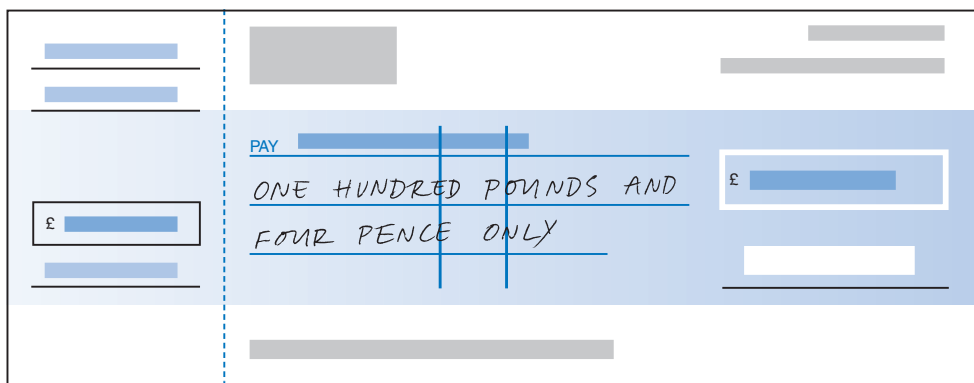The nursery has decided to take 20 children on a trip to the zoo.

6   **For safety the ratio of adults to children must be at least 1 : 4. How many adults are required for safety?**

   A   1
   B   4
   C   5
   D   6

7   **The group goes to the zoo in cars. Each car can hold 4 people. How many cars would they need altogether?**

   A   5
   B   6
   C   7
   D   10

PAY

ONE HUNDRED POUNDS AND
FOUR PENCE ONLY

£

8 **The leader writes a cheque for the entrance tickets. The cheque is for one hundred and four pounds and four pence. What is this amount in figures?**

A £104.04
B £104.4
C £140.40
D £1 004.4

Questions 9 to 13 are about the weather in Cyprus.

The table shows the daily hours of sunshine for each month at a holiday resort in Cyprus.

Use the information in the table to answer questions 9 and 10.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Daily hours of sunshine	5	7	8	9	10	11	12	10	9

9 **What is the range of the daily hours of sunshine over the months shown?**

A   5
B   7
C   9
D   12

10 **What is the average (mean) of the daily hours of sunshine for the months in the table?**

A   5
B   9
C   12
D   81

The bar chart shows the average (mean) daytime temperatures in degrees Celsius.

Use this bar chart for questions 11 to 13.

Temperatures in Cyprus
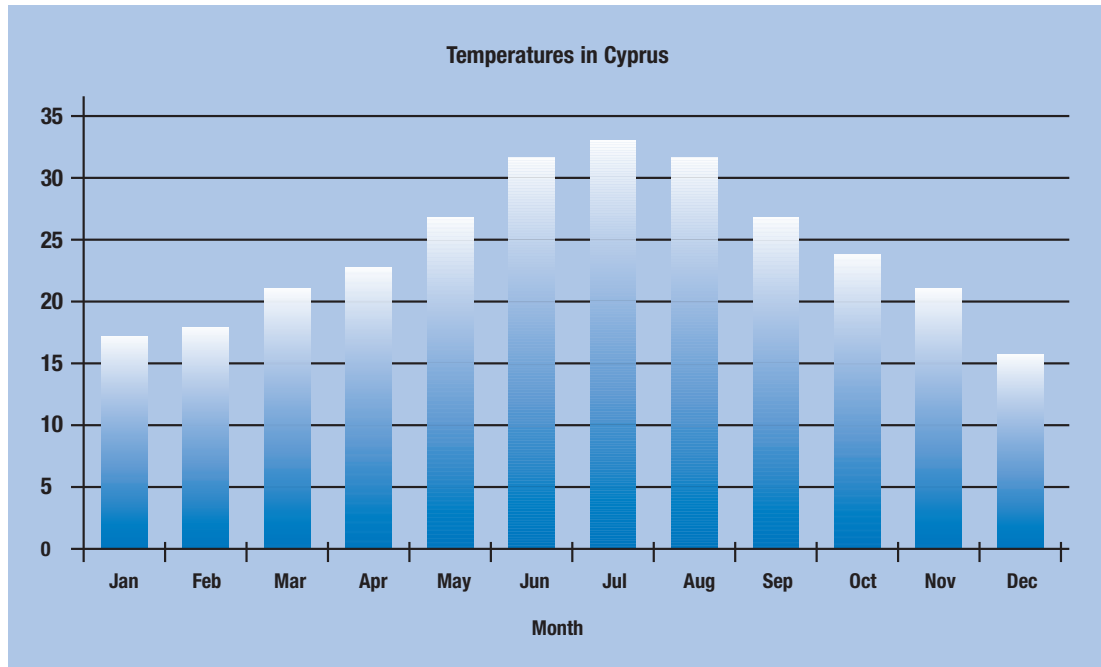
11 **The missing label on the y-axis is**

    A   Temperatures in °C

    B   Temperatures in °F

    C   Months of the year

    D   Weather

12 **What is the coldest month of the year?**

    A   January

    B   February

    C   November

    D   December

13 **How many months of the year have an average (mean) temperature above 20 °C?**

    A   5

    B   8

    C   9

    D   12

Questions 14 and 15 are about posting letters and parcels.
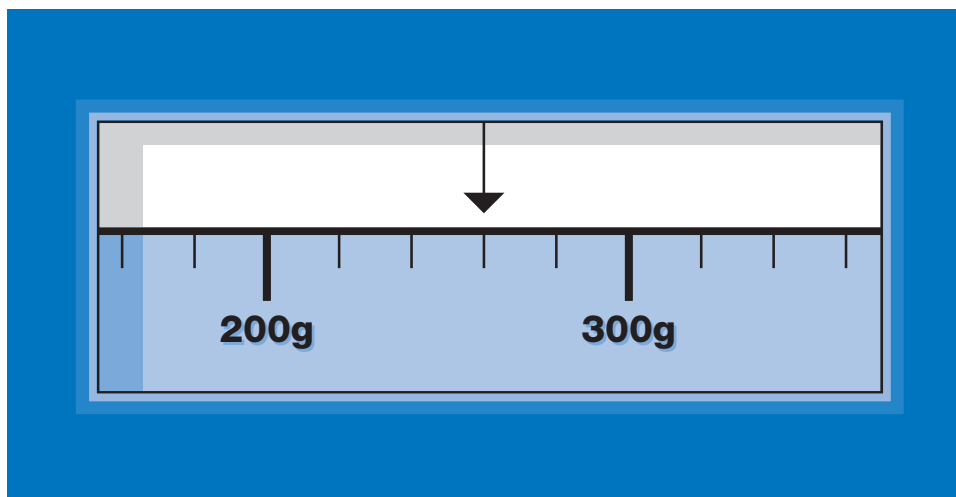
14 A letter is weighed at the post office and gives the reading shown on the diagram.
How much does the letter weigh?

A 203g

B 230g

C 260g

D 280g

15 Four parcels weigh 1.067 kilograms, 1.6 kilograms, 1. 67 kilograms and 1.607 kilograms.
Which is the heaviest parcel?

A 1.067kg

B 1.6kg

C 1.67kg

D 1.607kg

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Please turn to next page.

The table shows all the animals treated by the vets in a week.

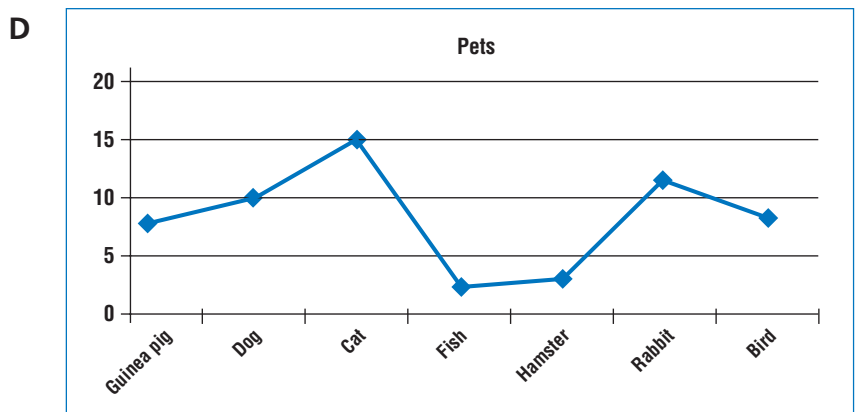| Type of animal	Guinea pig	Dog	Cat	Fish	Hamster	Rabbit	Bird
Number treated	7	10	15	3	4	13	8

16 **How many cats, dogs and rabbits were treated in total?**

   A   10
   B   15
   C   25
   D   38

17 **What fraction of the total number of animals treated were cats?**
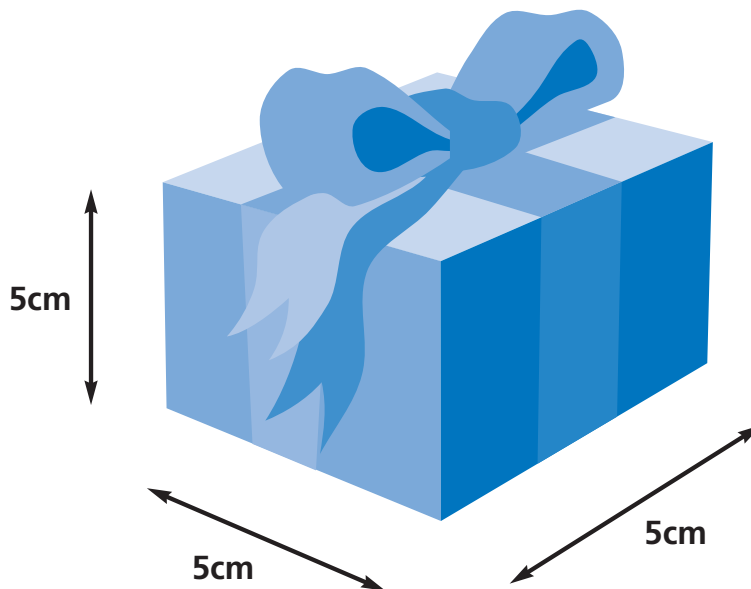
   A $\frac{1}{60}$
   B $\frac{1}{15}$
   C $\frac{1}{4}$
   D $\frac{1}{3}$

18 **Here is the same information on charts and graphs. Which one shows the information most clearly?**

A

B

C

D
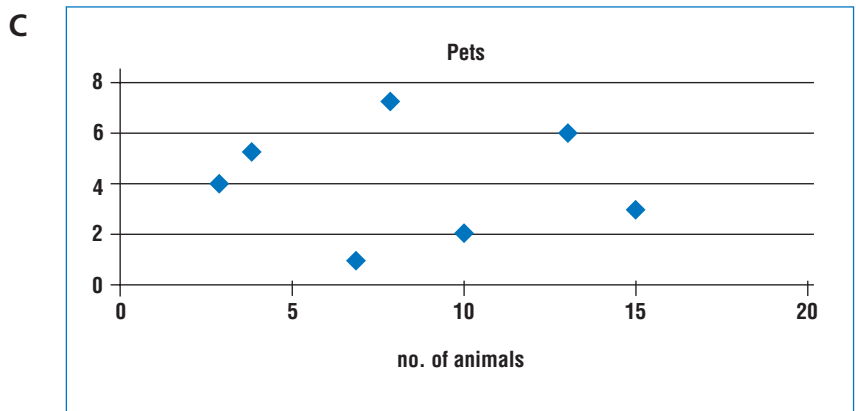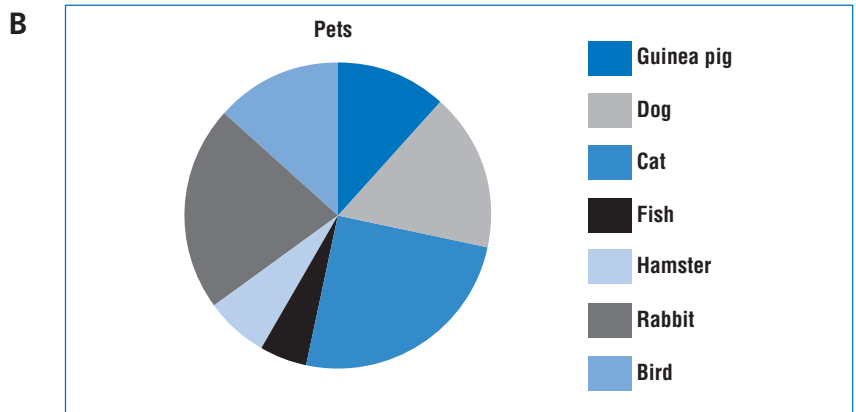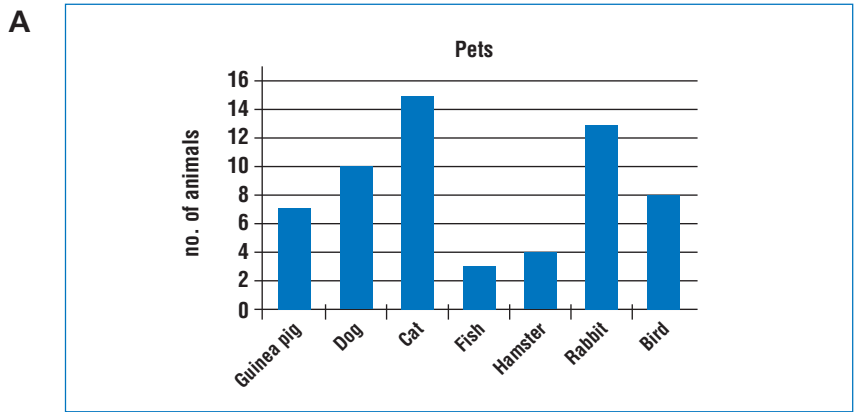
Questions 19 and 20 are about packing chocolates.

This is a diagram of a chocolate box (Not drawn to scale).
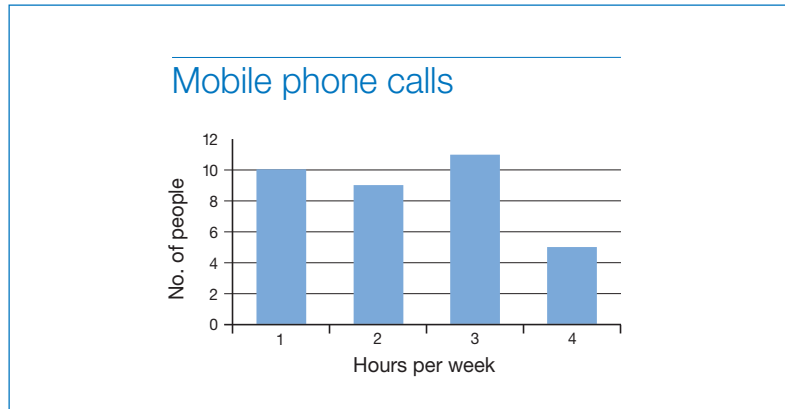

19 **What is the volume of the box?**

    A   15cm³

    B   25cm³

    C   125cm³

    D   555cm³

20 **Each box contains 12 chocolates. How many boxes will 1 800 chocolates fill?**

    A   120

    B   150

    C   180

    D   216

The chart shows how many hours per week a company's sales team spend on their mobile phones.

Mobile phone calls

21 **How many people work in the sales team?**

   A   4

   B   12

   C   30

   D   35

mobile phone offer
25% off
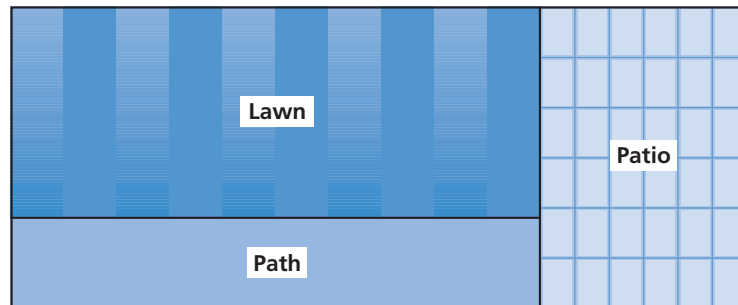marked price

22 **A store is offering mobile phones with 25% off the marked price. How much will a phone actually cost if the marked price is £72?**

   A   £18

   B   £25

   C   £47

   D   £54

Questions 23 to 26 are about a garden.

This is a scale plan of the garden. The scale is 1cm : 200cm.

23 **What is the length on the diagram of the short side of the lawn?**

A   1cm
B   3cm
C   4cm
D   7cm

24 **The path is 1.2 centimetres wide on the plan. What is its real width in the garden?**

A   24cm
B   120cm
C   240cm
D   2400cm

25 **The patio has an area of 46.64 square metres. What is this to the nearest square metre?**

A   46m²
B   46.6m²
C   46.7m²
D   47m²

26 One packet of grass food will cover 12 square metres. The area of grass is 84 square metres. What fraction of the grass will one packet cover?
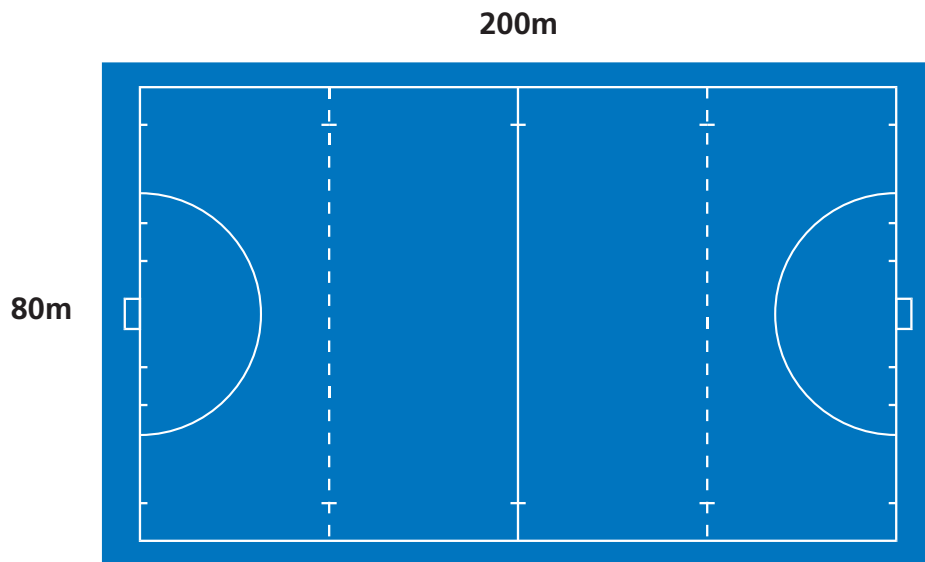
A $\frac{84}{12}$

B $\frac{1}{84}$

C $\frac{1}{12}$

D $\frac{1}{7}$

27 Four people rent a flat. The weekly rent is £121.76. They share the rent equally. Which calculation do they need to do to work out how much they each need to pay per week?

A 4 x £121.76

B 4 ÷ £121.76

C £121.76 ÷ 4

D £122 ÷ 4

Questions 28 to 30 are about a sports field.

The field measures 200 metres long and 80 metres wide.

200m

80m

28 **What is the total area of the field?**

A   280m²

B   360m²

C   1600m²

D   16 000m²

29 **What will the length of the field be on a scale drawing that uses a scale of 1 millimetre to 1 metre?**

A   20mm

B   80mm

C   20cm

D   200cm

30 **The groundsman has to fence off a rectangular area of 72 square metres for the high jump. The length must be 12 metres. How wide must it be?**

A   6m

B   8m

C   12m

D   24m

In 1996, the crowd at the semi-final of Euro 96 was 34 236.
In 2000, the crowd at the semi-final of Euro 2000 increased by 2 500.

31 **What is the crowd in 2000 rounded to the nearest 100?**

    A   36 700

    B   36 740

    C   36 800

    D   37 000

32 **45 000 people go to the Euro 2000 football final. About 20% are under 16. Approximately how many people are under 16?**

    A   2 000

    B   4 500

    C   9 000

    D   25 000

33 **The largest ever crowd at a football match was 199 000 people. What is this number in words?**

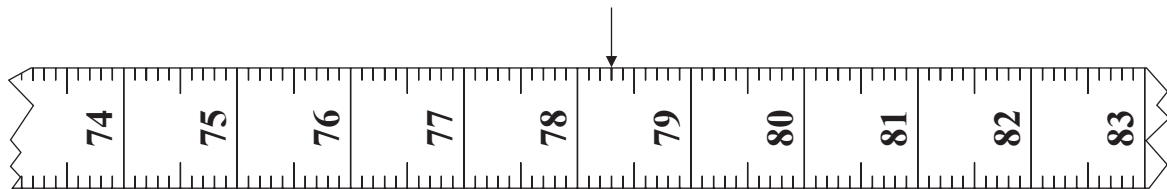   **A**   one hundred and ninety nine million

    B   one million nine hundred thousand

    C   one hundred and ninety nine thousand

    D   nineteen thousand nine hundred

Stuart joins the gym to get fit and to lose weight.

34 **He weighs himself using a metric scale. The reading is 85. How much does he weigh?**

    A 85lb
    B 85m
    C 85kg
    D 85km

35 **Next, he measures his waist. The arrow shows the measurement. What is his waist measurement?**

    A 78.0cm
    B 78.3cm
    C 79.0cm
    D 79.7cm

36 **Membership of the gym costs £36.50 a month. How much is this per year?**

    A £36.50
    B £365.00
    C £438.00
    D £4 380.00

37 The manager of the gym pays 4 cheques into the bank. The amounts are £438.00, £4 380, £36.50 and £365. What is the total amount paid in?

    A £4 116.50

    B £5 183.50

    C £5 219.50

    D £52 195

38 Over a year, the gym has 7 683 visitors. What is this to the nearest ten?

    A 7 600

    B 7 680

    C 7 682

    D 7 690

39 The gym needs a new carpet for the reception area. Which units are normally used to measure the area of a carpet?

    A yards

    B square inches

    C metres

    D square metres

40 When he starts going to the gym Stuart can run 5 kilometres in 24 minutes 10 seconds. After six weeks he can run the same distance in 21 minutes 25 seconds. He thinks he has improved by 2 minutes 45 seconds. Which calculation can he use to check if this is correct?

    A 21m 25s ÷ 2m 45s

    B 21m 25s + 2m 45s

    C 21m 25s x 2m 45s

    D 21m 25s – 2m 45s