KEY SKILLS DEVELOPMENT PROJECT

PHASED IMPLEMENTATION - (Series 2)

QUESTION BOOKLET

KEY SKILL	**LEVEL**	TEST VERSION
Application of Number	**Level 1**	**A**

WHAT YOU NEED FOR THIS TEST

• This Question Paper
• An Answer Sheet
• An HB Pencil
• An Eraser
• A Ruler

• **Calculators may NOT be used**
• **Bilingual dictionaries may be used**

TIME ALLOWED – 1 HOUR   **THERE ARE 40 QUESTIONS IN THIS TEST**
                                                    (Total Marks: 40)

INSTRUCTIONS TO CANDIDATES

• Write your personal details in the spaces provided on the Answer Sheet
• Read each question carefully
• Answer all of the questions
• Use an HB pencil and follow the instructions on the Answer Sheet
• At the end of the test, you must hand this Question Booklet, the Answer Sheet and all notes to the supervisor

• **DO NOT OPEN THIS QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO BY THE SUPERVISOR**

• **REMEMBER. YOU HAVE 1 HOUR TO FINISH THE TEST**

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1. Peter noted the people who visited the local library on Thursday afternoon.

	Boys	Men	Girls	Women
Number of visitors	32	16	48	45

How many more children than adults visited the library on Thursday afternoon?

A   45

B   35

C   29

D   19

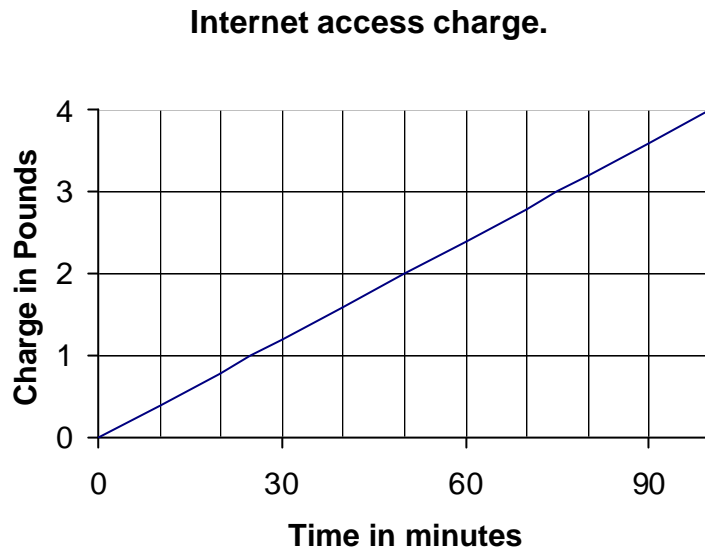2   Dan had four parcels to post. The parcels weighed

1.77 kg, 1.07kg, 1.707 kg and 1.077 kg.

Arrange the weights in order, lightest first.

A   1.07 kg, 1.77 kg, 1.077 kg, 1.707 kg

B   1.077 kg, 1.07 kg, 1.707 kg, 1.77 kg

C   1.07 kg, 1.077 kg, 1.707 kg, 1.77 kg

D   1.077 kg, 1.07 kg, 1.77 kg, 1.707 kg

3. An Internet café charges customers using the Internet by the minute.

A graph showing the charges is on the wall.

Internet access charge.

What is the cost of using the Internet for 70 minutes?

  A £2.40
  B £2.50
  C £2.80
  D £2.95

4. John is planning to carpet his room. The room is 5 m long and 3 m wide.

The area of his room is

  A 15
  B 15m
  C 15m^2
  D 15m^3

5. Sean works out £2451 – £1662 and says that the answer is £789.

   Which of these calculations can you use to check that his answer is correct?

   A 789 – 1662
   B 789 + 1662
   C 2451 + 789
   D 2451 + 1662

6. A local tourist map has a scale of 1cm to 2km.

   The distance between two towns measures 4.6 centimetres on the map.

   What is the actual distance between the two towns?
   A 2.3 km
   B 4.6 km
   C 8.2 km
   D 9.2 km

7. Ann spends 75 minutes each evening studying.

   She plans to use a fifth of the time reading through her class notes.

   How many minutes each evening does she spend reading her class notes?
   A 13 minutes
   B 15 minutes
   C 17 minutes
   D 25 minutes

8. John has a part-time job.

He puts 20% of the money he earns into a savings account.

Last month, he earned £130.

How much money did he put into the savings account?

    A £15

    B £20

    C £26

    D £30

9. Anandi's room is a rectangle in shape and has an area of 12 square metres.
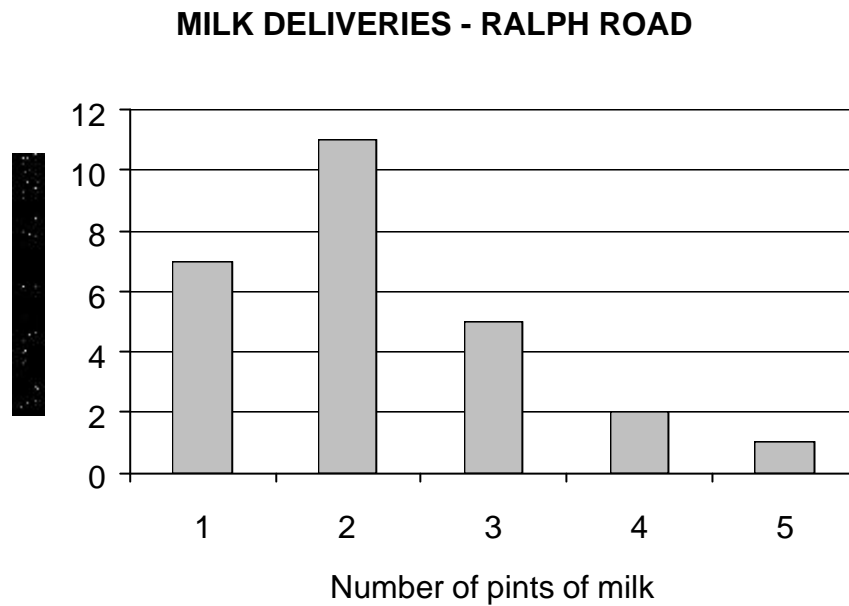
The room is 4m long. How wide is it?

    A 3m

    B 4m

    C 12m

    D 16m

Use the information below to answer questions 10 and 11.

The chart below shows milk deliveries for one road on a Saturday.

MILK DELIVERIES - RALPH ROAD

Number of pints of milk

10 How many houses in Ralph Road have milk delivered on Saturday?

    A 11

    B 23

    C 25

    D 26

11 How many pints of milk in total are delivered to Ralph Road on Saturday?

    A 15

    B 25

    C 26

    D 57

12. Simon noted the money he spent from Friday to Sunday.

Weekend Spending

Day	Refreshments	Travelling
Friday	£1.35	£3.50
Saturday	£3.72	£4.50
Sunday	£2.56	£4.00

How much did Simon spend altogether?

A £15.63

B £17.07

C £19.13

D £19.63

13. A year ago Angela weighed 46.7 kilograms. She now weighs 51.1 kilograms.

How much weight has she put on in the year?

A 4.3kg

B 4.4kg

C 5.3kg

D 5.4kg

Use the information given below to answer questions 14 and 15.

Andy lists the prices of five books that he wants to buy.

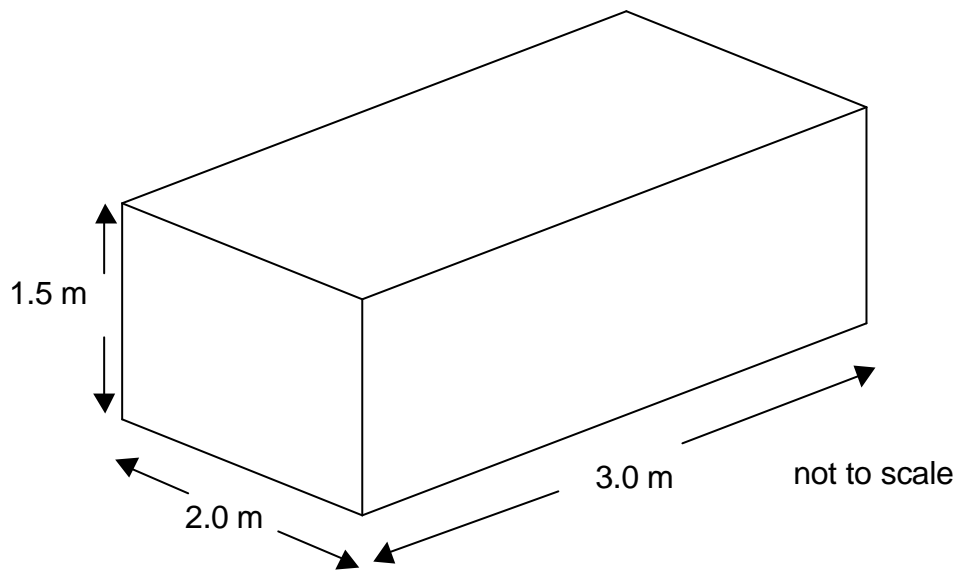| Andy's book list	
Book	**Price**
P	£5.00
Q	£4.00
R	£3.50
S	£4.50
T	£3.00

14. What is the mean price of the books in Andy's list?

    A £3.50

    B £4.00

    C £4.50

    D £5.00

15. What is the range of book prices in Andy's list?

    A £2.00

    B £3.00

    C £4.00

    D £8.00

16. A large fridge-freezer is packed in a crate, as shown below.

1.5 m

2.0 m

3.0 m

not to scale

What is the volume of the crate?

    A   3.0 cubic metres

    B   6.0 cubic metres

    C   6.5 cubic metres

    D   9.0 cubic metres

17. Moira Aspen is shopping in a supermarket.

The till receipt shows the items she bought but the total is not clear.

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┌─────────────────────────┐
│      TILL RECEIPT       │
│ Plant food      3.98    │
│ Plant           3.70    │
│ Duster          0.59    │
│                         │
│ Total       ▓▓▓▓▓▓▓     │
│                         │
└─────────────────────────┘
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Moira pays the bill with a £20 note.

How much change should she get?

    A £11.27

    B £11.63

    C £11.73

    D £11.83

18. A storage hopper in a flour mill holds 2000 kilograms of flour.

Two batches of flour - of 145 kilograms and 219 kilograms - are taken from it.

The storeman thinks there are 1736 kilograms left in the hopper.

He can check if he is correct by

    A adding 145 and 219 to 1736

    B adding 145 and 219 to 2000

    C taking 145 and 219 from 1736

    D adding 145 to 1736 and taking 219 from the result

19. A restaurant needs a new carpet.

    The area of a carpet is normally measured in

    A   square metres

    B   yards

    C   square inches

    D   metres

20. Penny keeps a record of the number of damaged items returned to her factory each day.

    Here is her record for one week

    | Week beginning 24/1/2000 | | | | |
    | Damaged items returned | | | | |
    | Monday | Tuesday | Wednesday | Thursday | Friday |
    | 6 | 0 | 10 | 9 | 5 |

    The mean number of items returned each day is

    A   30

    B   10

    C   6

    D   5

.

21. A drum of powdered paint contains 0.3 kilograms of dye.

    This is the same as

        A   thirty tenths of a kilogram

        B   three tenths of a kilogram

        C   three hundredths of a kilogram

        D   three thousandths of a kilogram

22. In a sale, a DIY store reduces everything by 25%.
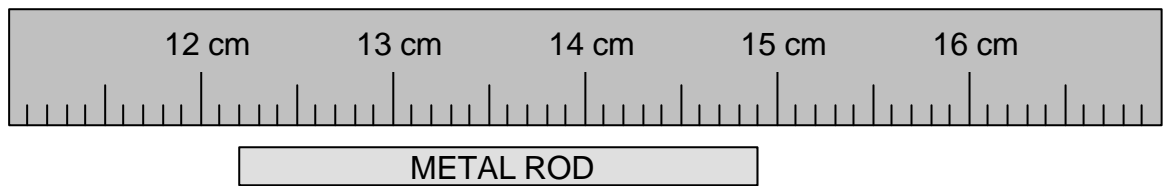
    The price of each item is reduced by

        A $^1/_{25}$

        B $^1/_4$

        C $^2/_5$

        D $^3/_4$

23. Nicky writes a cheque for £207 103.00

    She should write the amount in words as

        A   two hundred and seventy one thousand and three pounds only

        B   two hundred and seven thousand one hundred and three pounds only

        C   twenty seven thousand one hundred and three pounds only

        D   twenty thousand one hundred and three pounds only

24. This enlarged picture shows a metal rod and part of a ruler

| 12 cm | 13 cm | 14 cm | 15 cm | 16 cm |

METAL ROD

The length of the rod to the nearest tenth of a centimetre is

A 2.5 cm

B 2.7 cm

C 2.8 cm

D 3 cm

25. Seven boxes of salt weighing 3.75 kilograms each are packed into a crate.

The total weight of the salt in the crate is

A 0.57 kg

B 21.95 kg

C 26.25 kg

D 27.25 kg

26. Six identical blocks of flats have 5 floors each and 4 flats on each floor.

   The total number of flats in the six blocks is

   A   20

   B   30

   C   120

   D   150

27 A woman pays cheques for £1750, £104.75, £43.87 and £17.90 into her bank account

   The total she pays in is

   A   £1816.42

   B   £1914.52

   C   £1916.42

   D   £1916.52

28. The amount of milk in a milk jug is normally measured in

   A   ml

   B   mw

   C   mm

   D   gallons

29. A teacher notes the temperature of a liquid every five minutes during an experiment.

This table shows the temperatures.
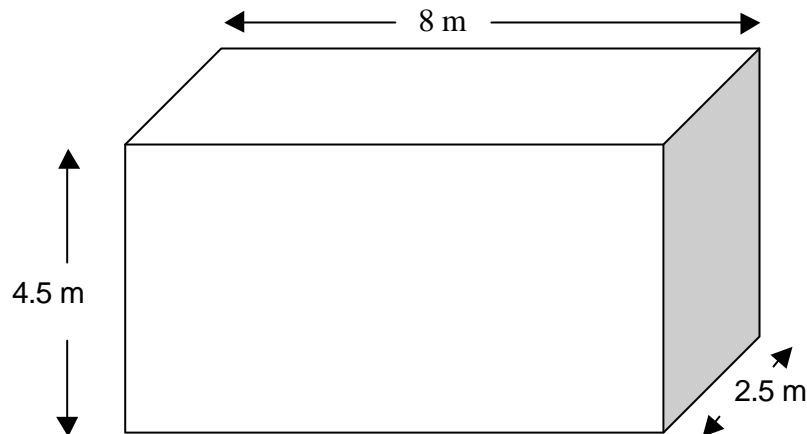
Liquid Temperatures						
Time	0 min.	5 min.	10 min.	15 min.	20 min.	25 min.
Temp.	59° C	60° C	64° C	65° C	60° C	54° C

The range of temperature is

    A 6° C

    B 11° C

    C 54° C

    D 54 to 65° C

30. A storage firm needs to know how many boxes can be stacked in this container.

The boxes are each 2 m by 1.5 m by 1.25 m

The largest number of boxes that will fit in the container is

    A 24 boxes

    B 32 boxes

    C 36 boxes

    D 40 boxes

Use this information below for questions 31 and 32.

A company exports microchips.

The chart shows the number of microchips exported to different parts of the world last year.

Microchips exported in 1999	
Canada	1 100 500
USA	17 500 000
Germany	8 000 000
Far East	1 050 000
France	5 300 000
Australia	1 250 000

31. The company exports the smallest number of microchips to

    A France

    B USA

    C Canada

    D Far East

32. The company exports a total of

    A 34 105 500 microchips

    B 34 195 500 microchips

    C 34 200 500 microchips

    D 34 205 500 microchips

33. A drawing has a scale of 10 millimetres to 1 metre.

   In the drawing, the length of a 7 metre wall is

   A   7 mm
   B   7 cm
   C   70 cm
   D   7 m

34. Take home pay is the difference between gross pay and deductions.

   The correct way to work out take home pay is

   A take home pay – deductions = gross pay
   B gross pay + deductions = take home pay
   C deductions = take home pay - gross pay
   D gross pay - deductions = take home pay

35. 42 football fans went by coach to an away match.

   Two thirds of the fans wore club scarves.

   The number wearing club scarves was

   A 13
   B 14
   C 21
   D 28

36. A pastry recipe uses half as much fat as flour.

   The pastry contains $\frac{1}{2}$ kilogram of flour.

   The amount of fat is

   A 1kg
   B 750g
   C 500g
   D 250g

Use the information below for questions 37 and 38.

A shoe factory has 330 employees.

The ratio of males to females is 10 to 1.

37. The number of female employees is

      A 30

      B 33

      C 300
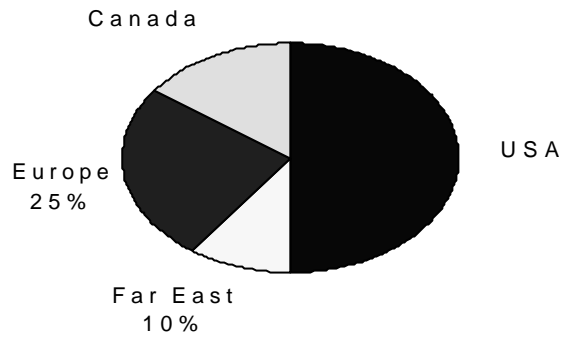
      D 320

38. 40% of all the employees have an NVQ.

   How many employees have an NVQ?

      A 40

      B 66

      C 132

      D 198

Use the information below for questions 39 and 40.

The pie chart shows where a company based in South America exports its goods.

INTERNATIONAL EXPORTS OF GOODS

Canada

Europe
25%

USA

Far East
10%

39. What percentage of the company's goods goes to Canada?

    A 25%

    B 20%

    C 15%

    D 10%

40. The company exports 25 791 items to Europe.

  To the nearest thousand items, this is

    A 25 000 items

    B 26 000 items

    C 27 000 items

    D 28 000 items