Key skills application of number
Adult numeracy
Level 1
Test Paper

YOU NEED

- This test paper
- An answer sheet
- A ruler marked in mm and cm

You may NOT use a calculator

You may use a bilingual dictionary

You may write on this paper if it helps you to work things out

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Do NOT open this 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
YOU HAVE 1 HOUR 15 MINUTES TO FINISH THE TEST

INSTRUCTIONS

- Make sure your personal details are entered correctly on the answer sheet
- Read each question carefully
- Follow the instructions on how to complete the answer sheet
- At the end of the test, hand the test paper, your answer sheet and all notes to the supervisor

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REMEMBER: YOU HAVE 1 HOUR 15 MINUTES TO FINISH THE TEST

INSTRUCTIONS TO CENTRES

- **This paper must not be photocopied**

Questions 1 to 7 are about a holiday to Greece.

1   The tables below show the prices for two different hotels

	Hotel A			Hotel B	
	Per person in £			Per person in £	
Date of arrival	7 nights	14 nights	7 nights	14 nights
May 1 - May 7	345	475	365	459
May 8 - May 14	359	489	385	479
May 15 - May 21	375	559	399	545
May 22 - May 29	455	565	469	575

The holidaymakers decide to stay at Hotel A.

What is the cost per person to stay at Hotel A for 7 nights arriving on May 15?

A   £359
B   £375
C   £399
D   £559

Please go on to the next page

Questions 2 and 3 use the following information.

The holidaymakers check the temperature in Greece for the last seven days.

Temperature °C

23°C	22°C	24°C	25°C	23°C	28°C	23°C

2 What is the average (mean) of these temperatures?

A   22°C
B   23°C
C   24°C
D   25°C

3 What is the range of these temperatures?

A   0°C
B   3°C
C   5°C
D   6°C

4 The holidaymakers park their car in the airport car park.
The parking charge is £6.70 per day.

How much does it cost to park their car for eight days?

A   £48.60
B   £53.60
C   £53.68
D   £55.70

5 The latest check-in time is 75 minutes before departure.
The plane leaves at 18:20

What is the latest check-in time?

A   17:05
B   17:20
C   17:35
D   17:45

6 They exchange £355 into euros at the airport.
The exchange rate is 1.44 euros to £1

Which estimation gives the nearest amount to the number of euros they will receive?

A   400 x 1
B   350 x 2
C   350 x 1.5
D   300 x 1.5

7 They have 1600 euros in total to spend over eight days.
They allow an equal amount each day.
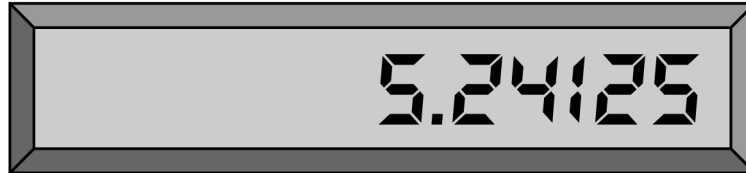
What is $\frac{1}{8}$ of 1600 euros?

A   80 euros
B   128 euros
C   200 euros
D   400 euros
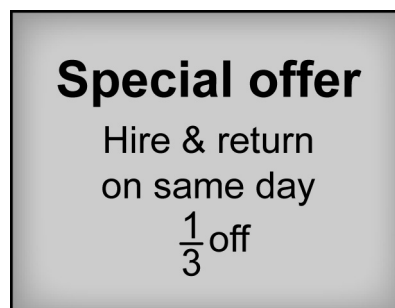
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Questions 8 to 12 are about a man hiring a carpet cleaner.

8   The carpet cleaner costs £29.95 plus VAT to hire for the weekend.
     The calculator display shows the VAT.

$$5.24125$$

How much is the VAT to the nearest penny?

A   £5.20
B   £5.24
C   £5.25
D   £5.30

9   The man decides to hire the cleaner at the daily rate of £25.98

Special offer
Hire & return
on same day
$\frac{1}{3}$ off

What is $\frac{1}{3}$ of £25.98?

A   £3.33
B   £6.50
C   £8.66
D   £17.32

10 He pays a deposit of £95.00 for the cleaner and buys 2 bottles of cleaning fluid at £5.67 each.

What is the total cost?
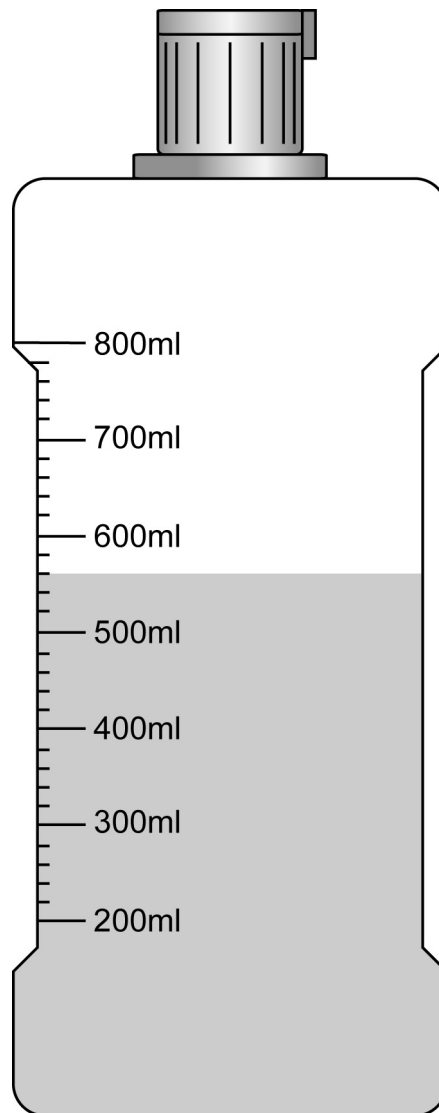
A   £83.66
B   £100.67
C   £105.24
D   £106.34

11 One rectangular carpet measures 3m by 3.5m.

What is the area of this carpet?

A $6.5m^2$
B $9.5m^2$
C $10.5m^2$
D $13.0m^2$

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12 The diagram shows the scale on the side of a bottle of cleaning fluid.

800ml

700ml

600ml

500ml

400ml

300ml

200ml

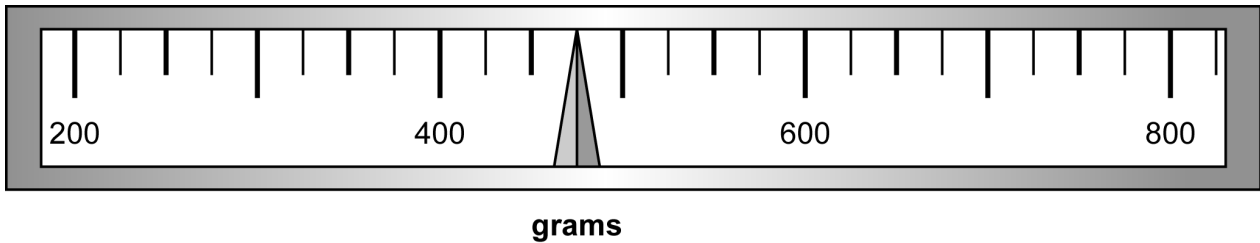How much cleaning fluid is in the bottle?

A   530ml
B   560ml
C   575ml
D   640ml

Please go on to the next page

Questions 13 to 17 are about a chef baking and decorating cakes.
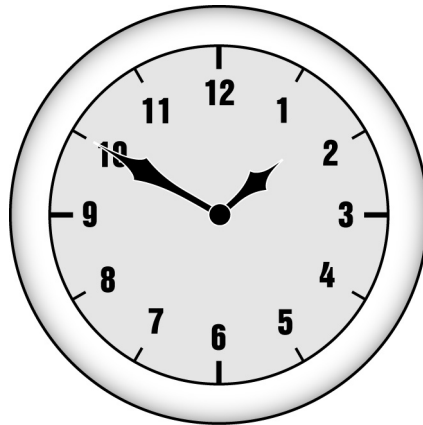
13 The chef weighs out some dried fruit.
The diagram shows the reading on the scale.

grams

What is the reading on the scale?

A 400.3g
B   430g
C   460g
D   475g

14 The cake recipe uses 100 grams of flour to every two eggs.
The chef uses twelve eggs in total.

How much flour should she use?

A   200g
B   600g
C 1200g
D 2400g

15   The clock shows the time she puts the cakes in the oven.

She wants to check the cakes after 55 minutes.

What time should she check the cakes?

A   2:45
B   2:55
C   3:45
D   3:55

16   The cake is baked at a temperature of 170°C.

These are degrees

A   celsius
B   calories
C   centilitres
D   centimetres

17   The chef decorates the top of one cake with a scale model of a vase of flowers.
The vase of flowers is 60 centimetres high.
The scale is 1 : 5

What is the height of the model vase of flowers?

A   6cm
B   10cm
C   12cm
D   15cm

Questions 18 to 25 are about an assistant in a motor parts shop.

18   There is 20% discount off all car sound systems.

What is 20% as a fraction?

A $\frac{1}{50}$

B $\frac{1}{20}$

C $\frac{1}{5}$

D $\frac{1}{4}$

19   A motorists' gift set usually costs £19.90
There is a 30% discount.
The set is on offer at £13.93 saving £5.97

How can the assistant check the saving?

A $13.93 \times \frac{30}{100}$

B $19.90 \times \frac{30}{100}$

C $\frac{13.93}{30} \times 100$

D $\frac{19.90}{30} \times 100$

20 She puts together a poster showing the special offer prices on brake pads and brake discs.

Brake Pads per pack

Make	Was	Now
Ford Mondeo	£19.00	£15.00
Rover 214	£20.00	£16.00

Brake Discs per pack

Make	Was	Now
Ford Mondeo	£25.00	£22.00
Rover 214	£33.00	£29.00

What is the total cost of one pack of brake pads and one pack of brake discs for a Ford Mondeo at the special offer price?

A £37.00

B £41.00

C £44.00

D £45.00

21 There is a discount of 25% off one brand of motor oil.
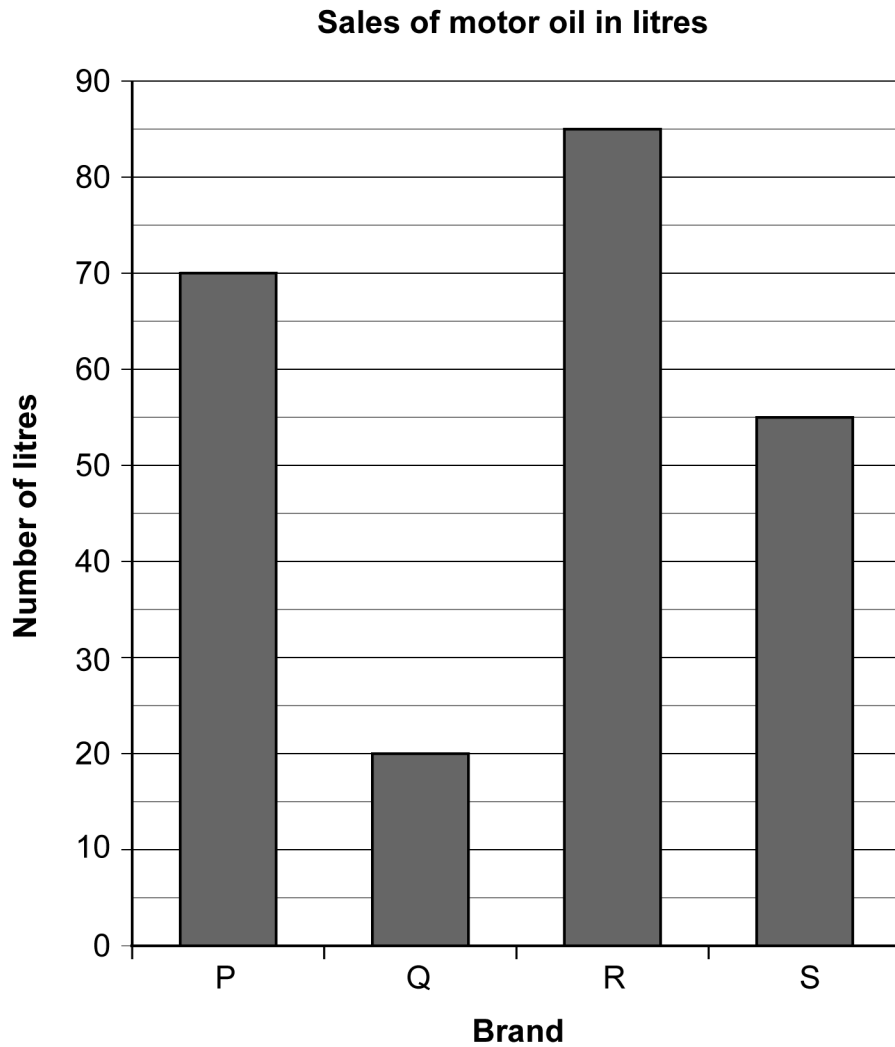The motor oil was £36

What is 25% of £36?

A £1.44

B £2.50

C £7.20

D £9.00

22 The assistant checks the sales, in litres, of four different brands of motor oil.

She draws a chart to show this.

Sales of motor oil in litres

What is the difference in sales in litres between Brand Q and Brand R?

A 15
B 35
C 50
D 65

Key skills application of number │ Adult numeracy │ Level 1 │ URN:352

23

She keeps a record of all tyre sales.

Customers buying tyres	
Number of tyres	**Number of customers**
1	ЖЖ ЖЖ
2	ЖЖ IIII
3	II
4	ЖЖ
5	II

How many customers bought tyres?

A   24
B   28
C   29
D   48

24

She records the value of last month's sales (£) from each department.

The most suitable way to show the proportions of sales for each department is

A   a line graph
B   a pictogram
C   a pie chart
D   a tally chart

25

The total value of tyre sales in the last four months is £80 060

What is 80 060 in words?

A   Eight hundred and sixty
B   Eight thousand and sixty
C   Eighty thousand and sixty
D   Eight hundred thousand and sixty

Questions 26 to 31 are about a homeowner checking his fuel bill.

26   The bill shows his meter readings.

        Present reading on 30/06/06   8 641 Units
        Previous reading on 06/04/06   8 439 Units

What is the difference in the readings?

A   198
B   202
C   212
D   218

27   The first 4 572 kWh are charged at a higher rate.

What is 4 572 to the nearest ten?

A   4 500
B   4 570
C   4 580
D   4 600

28   After the first 4 572 kWh, he is charged £0.01414 for each kWh.

What is £0.01414 in pence?

A   141.4p
B   14.14p
C   1.414p
D   0.1414p

29   The total charge is £52.60
VAT at 5% is added to this.

What is 5% of £52.60?

A   £2.63
B   £5.00
C   £5.26
D   £10.52

30   The man uses this bill to calculate how much he pays each week.
He calculates this as £4.248

What is this to the nearest 10p?

A   £4.00
B   £4.20
C   £4.30
D   £5.00

31   Last year he had four bills to cover 52 weeks.

Which method should he use to work out the weekly charge last year?

A   Add up the bills and divide by 52

B   Add up the bills and multiply by $\frac{52}{4}$

C   Add up the bills and divide by 4

D   Add up the bills and multiply by 52

Questions 32 to 40 are about a nursery.

32

The ratio of staff to children in the nursery is

One staff member : Four children

How many staff members does the nursery need for 50 children?

A　10
B　12
C　13
D　17
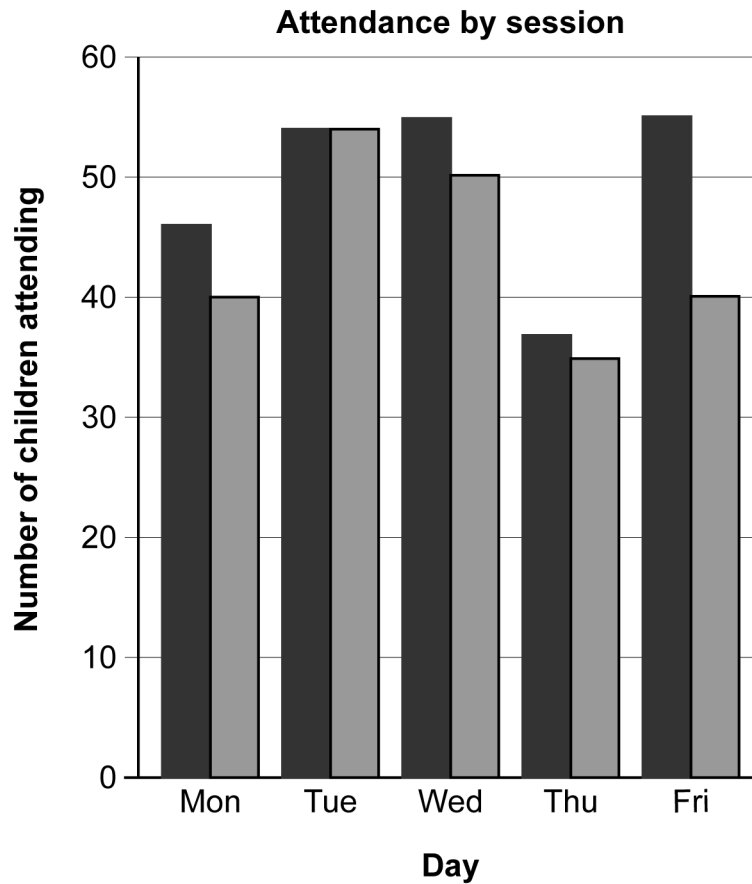
33

The table shows the number of children attending for full days in one week.

Number attending for full days in one week	
Monday	22
Tuesday	31
Wednesday	26
Thursday	23
Friday	23

What is the average (mean) number attending each day?

A　22
B　23
C　25
D　26

34   The nursery manager draws a bar chart to show attendance during one week.

Attendance by session

There is an error on the chart.

What is the error?

A   There is no title.
B   There is no key.
C   The horizontal axis label is missing.
D   The vertical axis label is missing.

35 A parent asks how much two full days with breakfast both days will cost.

Full day	£26.33
Breakfast (per day)	£2.00

What is the cost of two full days with breakfast both days?

A £46.66
B £48.66
C £54.66
D £56.66

36 A supervisor makes up the weekly bills.

	£
Weekly charge	141.65
Less money paid to date	28.33
	113.32

How can the manager check this bill?
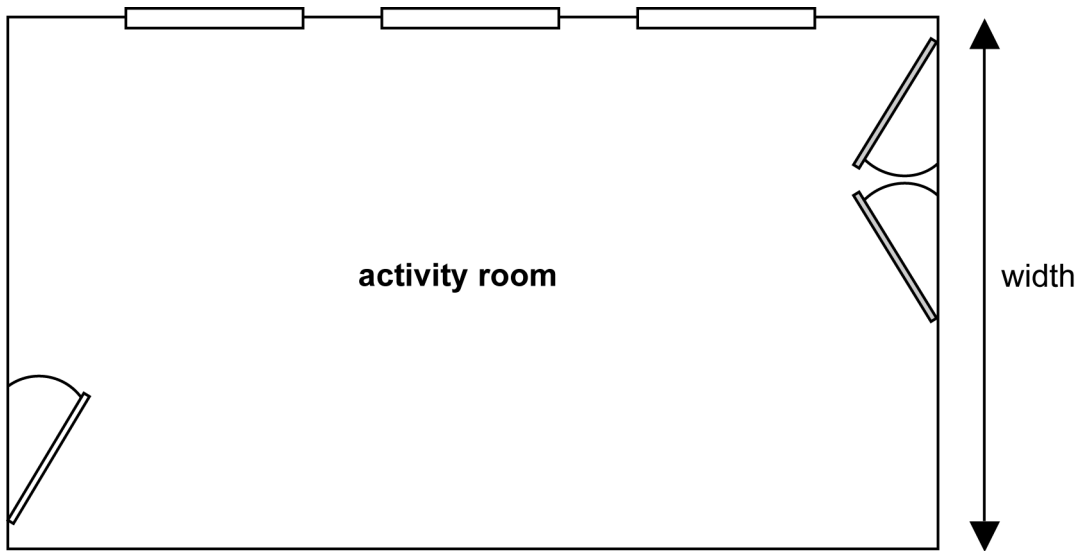
A 113.32 - 28.33
B 113.32 + 28.33
C 141.65 + 28.33
D 141.65 + 113.32

37 The owner has plans for an extension to the nursery.
The estimated cost of extension is seventy-eight thousand seven hundred and twenty pounds.

In figures this is

A 78 720
B 708 720
C 780 720
D 787 020

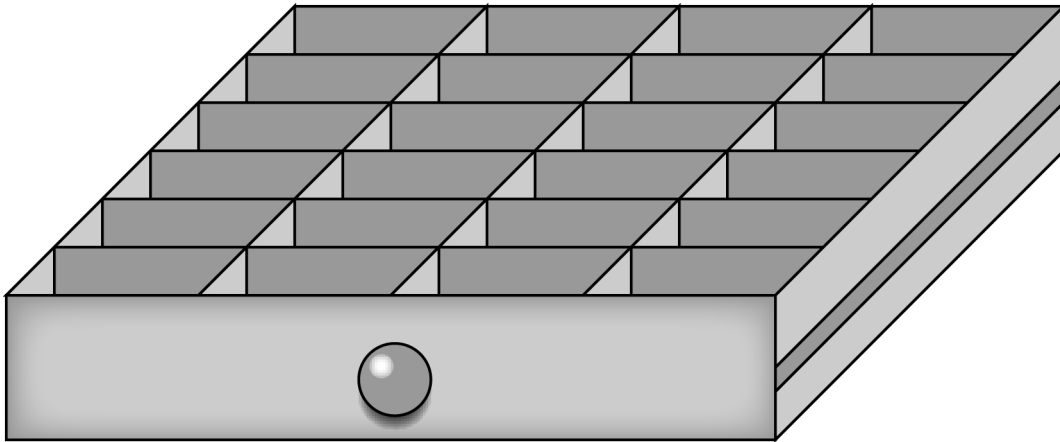**38**   The owner checks a scale plan of a new activity room.

activity room

width

Scale: 1cm represents 0.5m

What will be the width of the activity room?

A   1.4m
B   3.5m
C   7.0m
D   14.0m

Please go on to the next page

39 A storage unit for the activity room has three drawers.
Each drawer is split into six rows of four compartments.

How many compartments are there in total in the three drawers?

A 13
B 30
C 36
D 72

40 Regulations state that each child must have 2.5 square metres of floor space in a nursery.
One room has 36 square metres of floor space.

What is the maximum number of children that this room can be used for?

A 12
B 14
C 15
D 18

End of test

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