



# 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**

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#### 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**

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#### INSTRUCTIONS TO CENTRES

- This paper must not be photocopied

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Ref: AoN-L1-SQ1\_A-P1-v7.0-URN:487

**Questions 1 to 5 are about making cakes to sell on a charity stall.**

**1**

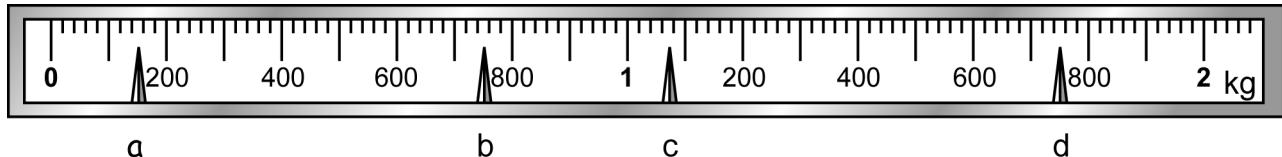
A recipe uses three eggs to make one sponge cake.

How many eggs does a cook need to make four of these sponge cakes?

- A 3
- B 4
- C 7
- D 12

**2**

The recipe uses 175 grams of butter for each cake.



Which pointer shows a reading of 175 grams?

- A Pointer a
- B Pointer b
- C Pointer c
- D Pointer d

**3**

The cook sets the oven temperature for the cakes.

Oven temperature can be measured in degrees.

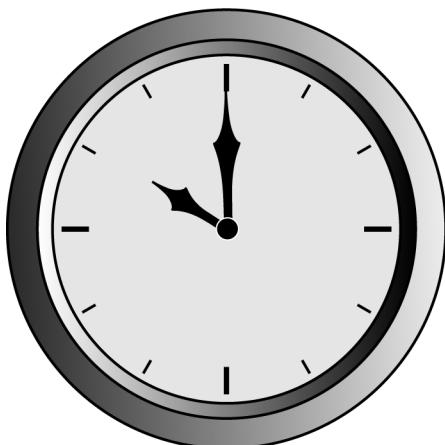
They are called degrees

- A centimetres
- B Celsius
- C grams
- D minutes

4

She puts the cakes into the oven at 10:35am.  
They take 25 minutes to bake.

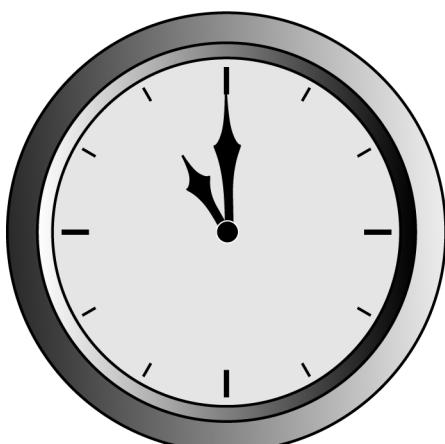
**clock a**



**clock b**



**clock c**



**clock d**



Which clock face shows the time the cakes should be taken out of the oven?

- A clock a
- B clock b
- C clock c
- D clock d

5

One cake costs £1.50 to make.

The cake is cut into six portions and sold for 50p a portion.

Which calculation finds the difference between the cost of making the cake and the total selling price for one cake?

- A  $1.50 - 0.50$
- B  $(6 \times 0.50) - 1.50$
- C  $6 \times 0.50$
- D  $1.50 \div (6 \times 0.50)$

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**Questions 6 to 10 are about a holiday.**

- 6** A holidaymaker books a holiday costing £1100  
He pays a 15% deposit.

What is 15% of £1100?

- A    £15.00
- B    £16.50
- C    £150.00
- D    £165.00

- 7** The holidaymaker buys 4 bottles of suntan lotion.  
Each bottle costs £5.49

How much do 4 bottles of suntan lotion cost?

- A    £20.49
- B    £20.66
- C    £21.96
- D    £21.99

- 8** The holidaymaker has 64.24 euros left from a previous holiday.

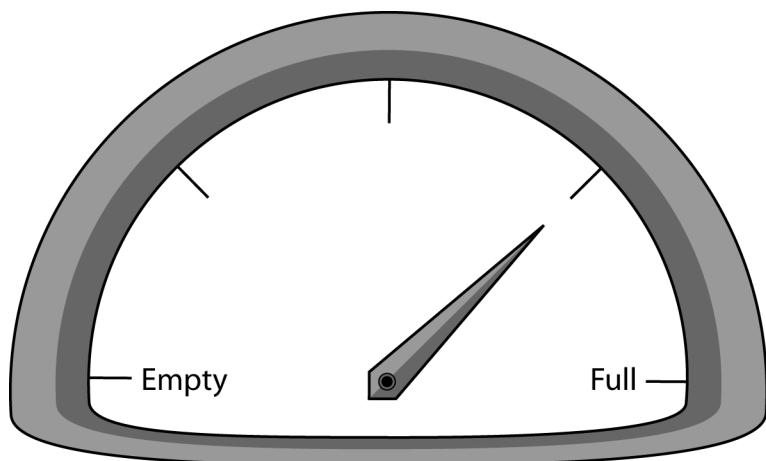
How much is this to the nearest euro?

- A    60 euros
- B    64 euros
- C    65 euros
- D    70 euros

9

The holidaymaker drives to the airport.

The diagram shows the reading on his car's petrol gauge.



How much petrol is left in the tank?

- A  $\frac{1}{4}$  of a tank
- B  $\frac{1}{3}$  of a tank
- C  $\frac{2}{3}$  of a tank
- D  $\frac{3}{4}$  of a tank

10

He leaves his car in the car park for 11 days.

Car parking at the airport costs £35 for the first seven days then £5 per day for each of the extra four days.

Which calculation should he use to find out the cost of parking?

- A  $35 + (5 \times 4)$
- B  $35 + (5 \times 11)$
- C  $(35 + 5) \times 4$
- D  $(35 + 5) \times 11$

Questions 11 to 13 are based on an article about Switzerland.

- 11 The article states that 20% of Swiss people speak French as their main language.

What is 20% as a fraction?

- A  $\frac{1}{2}$
- B  $\frac{1}{5}$
- C  $\frac{1}{4}$
- D  $\frac{1}{20}$

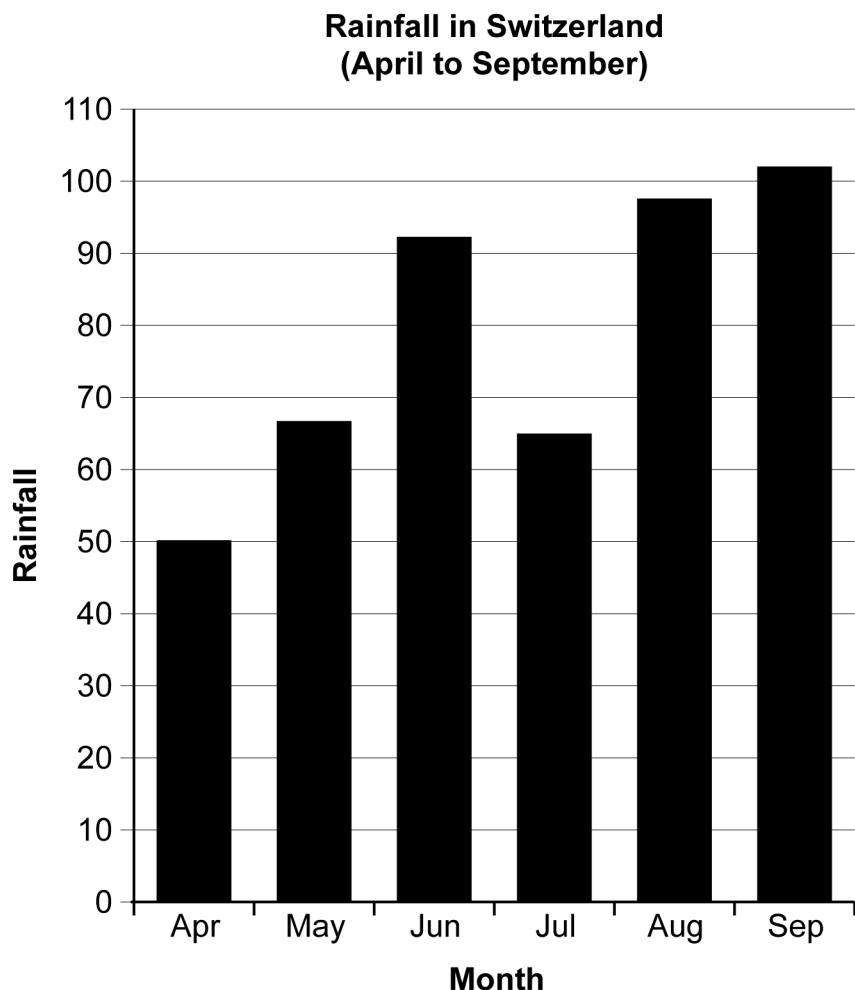
- 12 The article states that the population of Switzerland is 7 261 000  
One in ten of the population of Switzerland is Italian.

How many of the population are Italian?

- A 100 000
- B 660 091
- C 726 100
- D 806 778

13

There is a bar chart in the article that shows the rainfall per month in Switzerland from April to September last year.



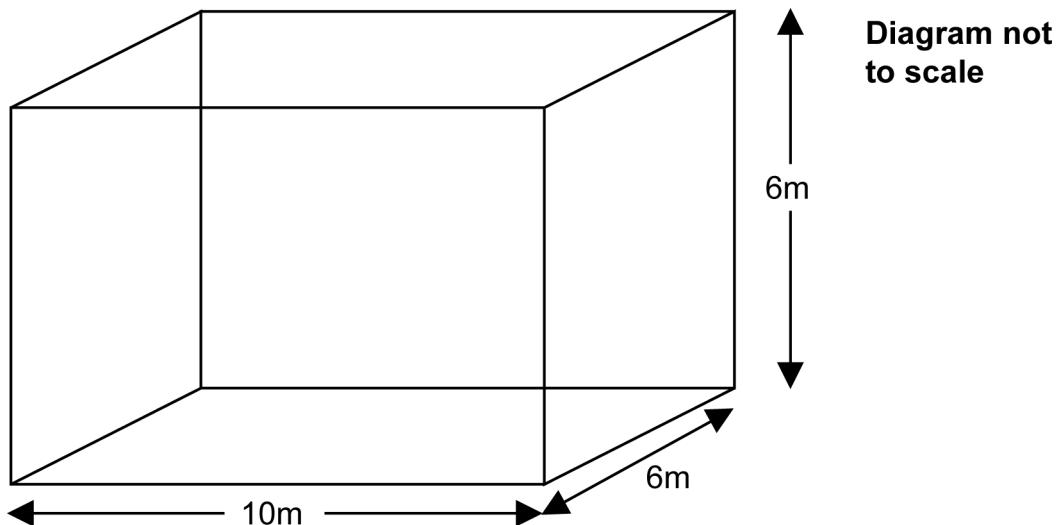
What is missing from the chart?

- A units on the vertical axis
- B a label on the horizontal axis
- C a title
- D a key

Questions 14 to 17 are about building a flat-roofed extension to a house.

14

The householder works out the volume of the planned extension.  
The diagram shows the measurements of the planned extension.



What is the volume of the planned extension?

- A  $22\text{m}^3$
- B  $60\text{m}^3$
- C  $120\text{m}^3$
- D  $360\text{m}^3$

**15**

The builder has a plan of the house and the new extension.  
The scale on the plan is 2cm : 1m.  
The length of one wall on the plan is 10 centimetres.

How long is this wall?

- A 2 metres
- B 5 metres
- C 10 metres
- D 20 metres

**16**

One area of brickwork will be 36 square metres.  
There are 120 bricks to a square metre.

How many bricks does the builder need for 36 square metres?

- A 3 620
- B 4 220
- C 4 320
- D 4 356

**17**

The builder works out an estimate of the total cost of the extension and fittings as thirty thousand six hundred and fifty pounds.

In figures this is

- A £3 650
- B £30 650
- C £300 650
- D £30 000 650

**Questions 18 to 22 are about hiring a company to clean carpets and curtains.**

This table shows the cost of carpet cleaning

Cost of carpet cleaning	
Carpet	Cost (£)
Lounge	22.50
Dining room	17.50
Hall/stairs/landing	25.00
Bedroom (cost per bedroom)	17.00
Whole house 2 bedrooms	57.50

**18** How much does it cost to have just the lounge and dining room carpets cleaned?

- A £39.50
- B £40.00
- C £42.50
- D £47.50

**19** The householder has a two-bedroom house.  
She decides to have the following carpets cleaned

- lounge
- dining room
- hall/stairs/landing
- one bedroom

Which calculation will give the saving if she pays for the whole house cleaning of a two-bedroom house instead of paying for the carpets individually?

- A £22.50 + £17.50 + £25.00 + £17.00
- B £57.50 - £22.50 - £17.50 - £25.00
- C £22.50 + £17.50 + £25.00 + £17.00 + £57.50
- D £22.50 + £17.50 + £25.00 + £17.00 - £57.50

- 20 There is a special offer.



A four-bedroom house normally costs £72.00 for 'whole house cleaning'.

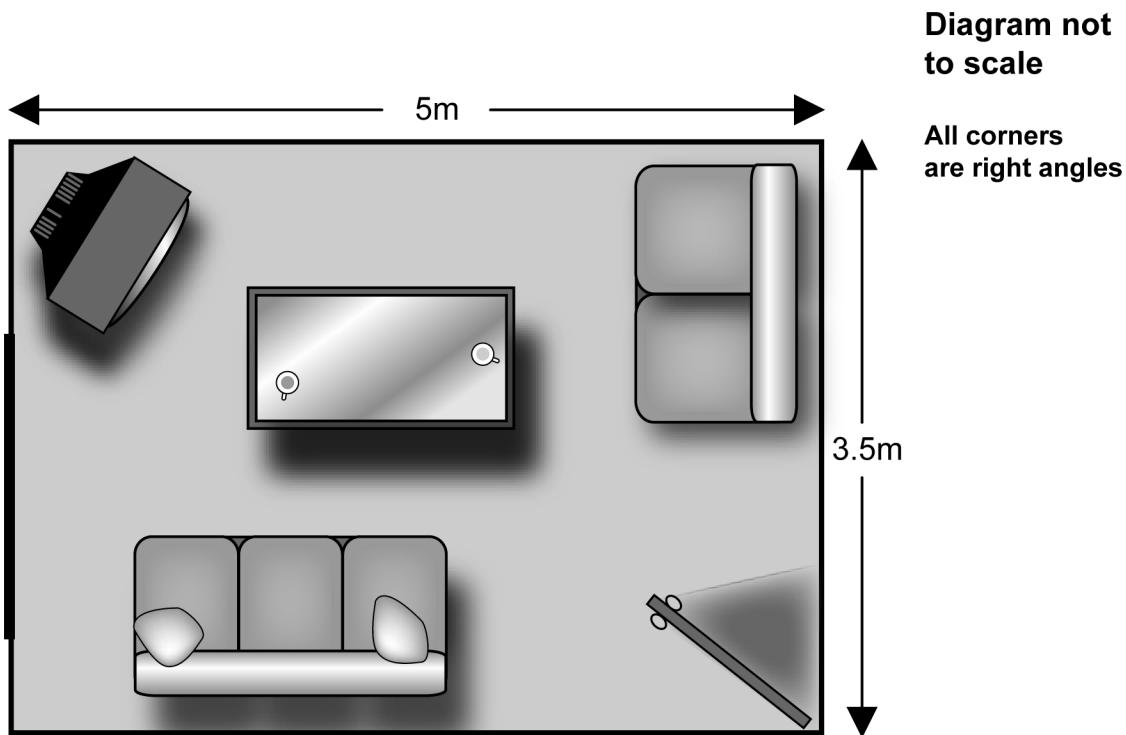
How much is  $\frac{1}{3}$  of £72.00?

- A £13.00
- B £18.00
- C £24.00
- D £33.00

Please go on to the next page

21

Another firm charges for cleaning by area.  
The householder calculates the area of this rectangular lounge



What is the area of the lounge?

- A  $8.5\text{m}^2$
- B  $17.0\text{m}^2$
- C  $17.5\text{m}^2$
- D  $21.0\text{m}^2$

- 22** The table shows the cost of cleaning curtains.

Curtains (per pair)	Price
Full length (over 1.5 metres long)	£22.50
Half length (under 1.5 metres long)	£17.50

How much does it cost to clean two pairs of full length curtains and one pair of half length curtains?

- A £52.50
- B £56.25
- C £61.50
- D £62.50

**Please go on to the next page**

Questions 23 to 28 are about a charity shop.

23

On one day the manager records the number of customers buying items from the shop at different times.

Time	Number of customers buying items
0900 up to 1100	
1100 up to 1300	
1300 up to 1500	
1500 up to 1700	

How many customers bought items from the shop on that day?

- A 60
- B 65
- C 78
- D 80

24

The shop sells clothes, books, bric-a-brac and charity cards.

The manager wants to compare the proportions of takings raised by sales of these different items.

Which is the **best display** to show proportion?

- A a pie chart
- B a line graph
- C a scale plan
- D a pictogram

25

He keeps a record of the number of books sold each day for five days.

Monday	Tuesday	Wednesday	Thursday	Friday
6	21	15	26	32

What is the average (mean) number of books sold each day?

- A 15
- B 20
- C 21
- D 26

**26**

One Friday the shop raises £120  
One-fifth of the money raised goes to a local charity.

How much money goes to the local charity?

- A £15
- B £20
- C £22
- D £24

**27**

On one day the manager works out the average (mean) amount raised each hour.

The calculator display shows this amount in pounds.



What is this amount to the nearest penny?

- A £6.60
- B £6.66
- C £6.67
- D £6.70

**28**

A customer buys three books at 10p each, one vase at 55p and a dress at £2.75

How much do these cost in total?

- A £3.60
- B £3.50
- C £3.40
- D £2.50

**Questions 29 to 33 are about a company carrying out work abroad.**

The company is paid in American dollars (\$) for supplying and fitting some equipment.

**29** The cost of the equipment supplied is \$110 000

In words this is

- A eleven thousand dollars
- B one hundred and ten thousand dollars
- C one hundred and eleven thousand dollars
- D one million ten thousand dollars

**30** The basic labour cost for installing the equipment is \$79 000 plus a 10% allowance paid to anyone working away from home.

What is 10% of \$79 000?

- A \$10
- B \$790
- C \$1 000
- D \$7 900

**31** Another order costs \$273 550

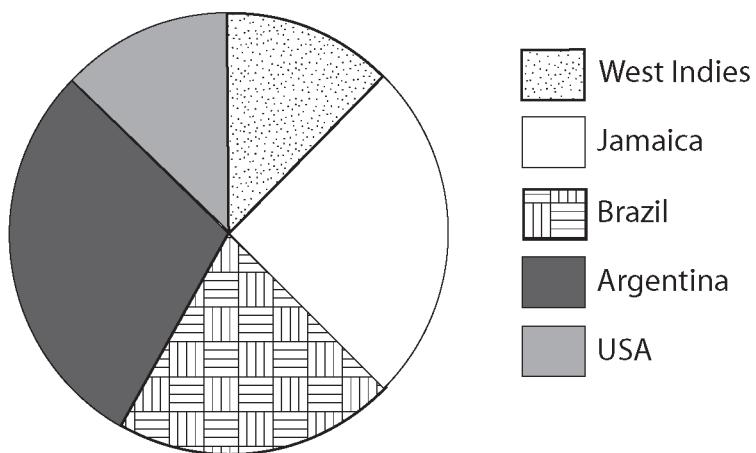
What is this rounded to the nearest \$1000?

- A \$274 000
- B \$273 600
- C \$273 000
- D \$270 000

**32**

The pie chart shows the value of orders received by the company from different regions.

**Value of orders received from different regions**



The pie chart shows that

- A the value of orders is the same from West Indies and Jamaica.
- B Argentina has the lowest value of orders received.
- C about a quarter of the total value of orders are from USA.
- D the value of orders is higher from Argentina than from Brazil.

**33**

A quarter of the employees work in the Sales department.

What is a quarter as a percentage?

- A 40%
- B 25%
- C 20%
- D 4%

**Questions 34 to 40 are about electrical workers and costs.**

The table shows the wage rate per hour for electrical workers at a company.

Rates for electrical workers per hour		
Job/Title	Rate with transport provided	Rate with own transport
Technician	£11.00	£11.50
Electrician	£9.00	£9.50
Electrical improver	£8.00	£8.50
Labourer	£7.00	£7.50
Senior electrical trainee	£8.00	£8.50
Trainee (under 21)	£5.50	£6.00

**34** What is the range of all the wage rates shown in the table?

- A £0.50
- B £5.50
- C £6.00
- D £8.50

**35** How much does an electrical improver with own transport earn per hour?

- A £7.50
- B £8.00
- C £8.50
- D £9.50

**36** A worker at the company uses a map to find the distance to her next job.

The map has a scale of 10 millimetres = 1 kilometre.

The distance on the map is 55 millimetres.

How far in kilometres is it to her next job?

- A 0.55km
- B 5.5km
- C 10km
- D 55km

**37**

An electrician with her own transport earns £9.50 per hour.  
In one week, the number of hours she works each day are

Monday	9
Tuesday	8
Wednesday	10
Thursday	8
Friday	7

Her total pay for this week is £399.00

Which calculation should she use to check her total pay?

- A  $(9 + 8 + 10 + 8 + 7) \times 9.50$
- B  $(9 + 8 + 10 + 8 + 7) \div 9.50$
- C  $(9 \times 8 \times 10 \times 8 \times 7) \times 9.50$
- D  $(9 \times 8 \times 10 \times 8 \times 7) \div 9.50$

**38**

The worker has her own transport.

She claimed a travel allowance for using her car on 6 journeys last week.

Travel allowances claimed	
Journey	£
A	2.40
B	2.80
C	5.20
D	2.80
E	8.00
F	8.80
<b>Total</b>	<b>30.00</b>

What is the average (mean) travel allowance she claimed for these journeys?

- A £5.20
- B £5.00
- C £2.80
- D £2.40

**39** A trainee earns £5.50 an hour.

How much does he earn for a 40-hour week?

- A £200.50
- B £202.00
- C £220.00
- D £238.00

**40** A technician earns £506 per week.

This week he claims £111.50 for travel and two nights' lodging allowance at £26.50 per night.

What is the total of his earnings and expenses for this week?

- A £660.50
- B £669.50
- C £670.50
- D £671.50

**End of test**

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