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QUALIFICATIONS  
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FOR WALES



# Key skills application of number Adult numeracy Level 1

## Test Paper B

### 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

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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 AND 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
- 

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

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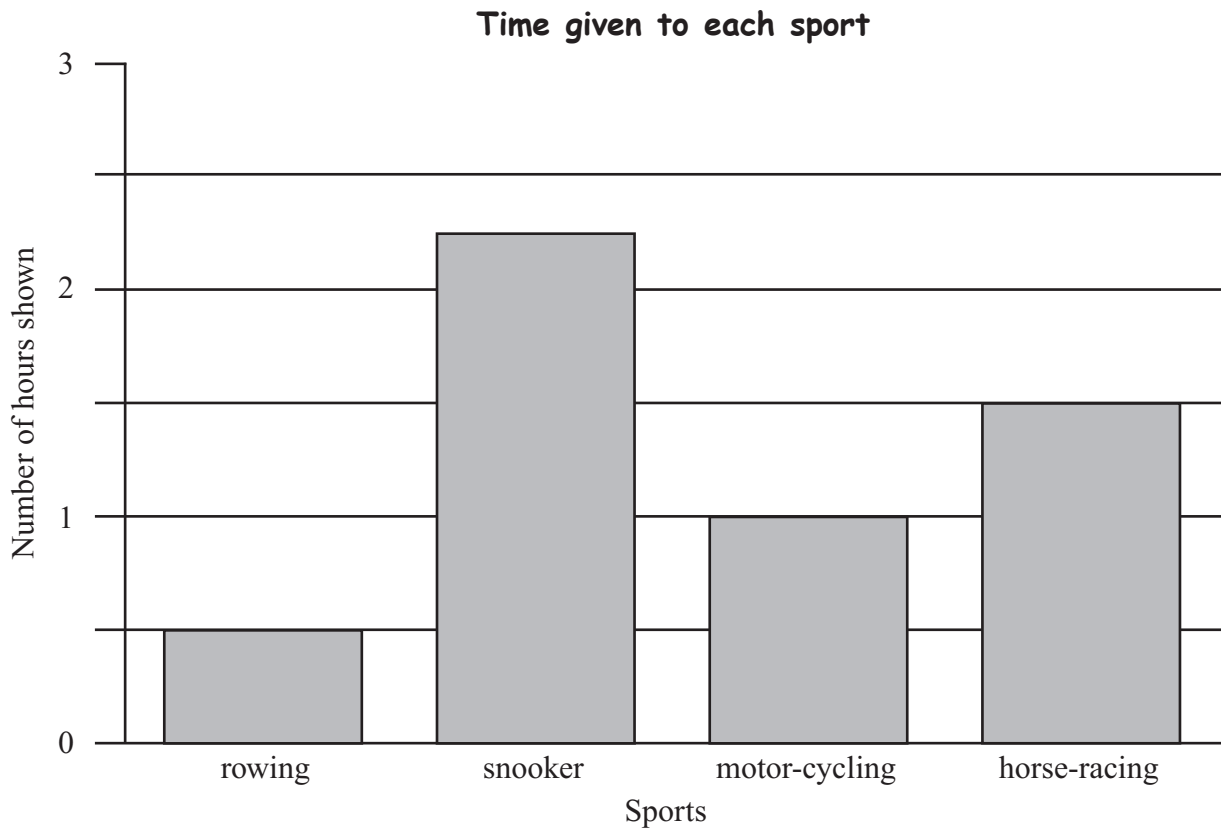
**PLEASE GO TO NEXT PAGE**

1 The takings in the U.K. for one weekend of a new film were £5.72 million.

This amount of money is

- A £5720000
- B £57200000
- C £572000000
- D £5720000000

2 A Sunday afternoon sports programme on TV featured four sports. The chart shows the number of hours given to each sport in the programme.



How long was the programme?

- A  $10\frac{1}{2}$  hours
- B  $10\frac{1}{4}$  hours
- C  $5\frac{1}{2}$  hours
- D  $5\frac{1}{4}$  hours

3 29 376 runners finished a marathon.

How many is this to the nearest ten?

A 29 300

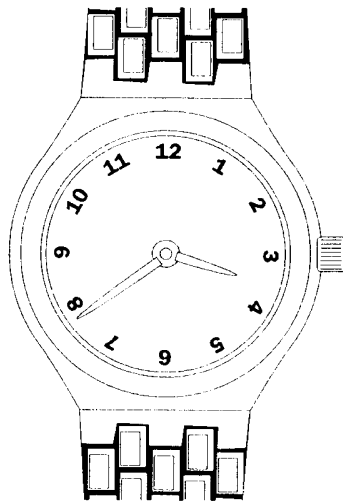
B 29 370

C 29 380

D 29 400

4 A runner started a marathon at 11:00am.

The watch face shows the time he finished.



How long did he take?

A 3 hours 21 minutes

B 3 hours 39 minutes

C 4 hours 21 minutes

D 4 hours 39 minutes

A marathon runner had ten sponsors. The amounts they paid were:

£6 £10 £10 £5 £2  
£5 £10 £4 £20 £8

5 What is the range of the amounts paid?

- A £2
- B £10
- C £18
- D £20

6 What is the average (mean) amount of money each sponsor paid?

- A £7
- B £8
- C £10
- D £80

- 7 A playgroup leader is paid £5.20 per hour.  
Her payslip shows she earned £119.60 last week.  
Which calculation gives the number of hours she worked?
- A  $5.20 \times 119.60$
  - B  $119.60 \div 5.20$
  - C  $119.60 \div 52$
  - D  $5.20 \div 119.60$
- 8 A playgroup leader earned £119.60 last week.  
£17.32 Income Tax and £5.60 National Insurance were deducted.  
How much did she receive after the deductions?
- A £95.68
  - B £96.68
  - C £97.32
  - D £102.28
- 9 A carer at a playgroup takes home pay of £85.40.  
She buys 2 CDs at £9.99 each.  
She saves the rest of her pay.  
How much does she save?
- A £65.38
  - B £65.42
  - C £75.39
  - D £75.41

10 Twenty per cent of the CDs in a collection are Jazz.

This is:

- A a little less than a quarter
- B a little more than a quarter
- C a little less than a half
- D a little more than a half

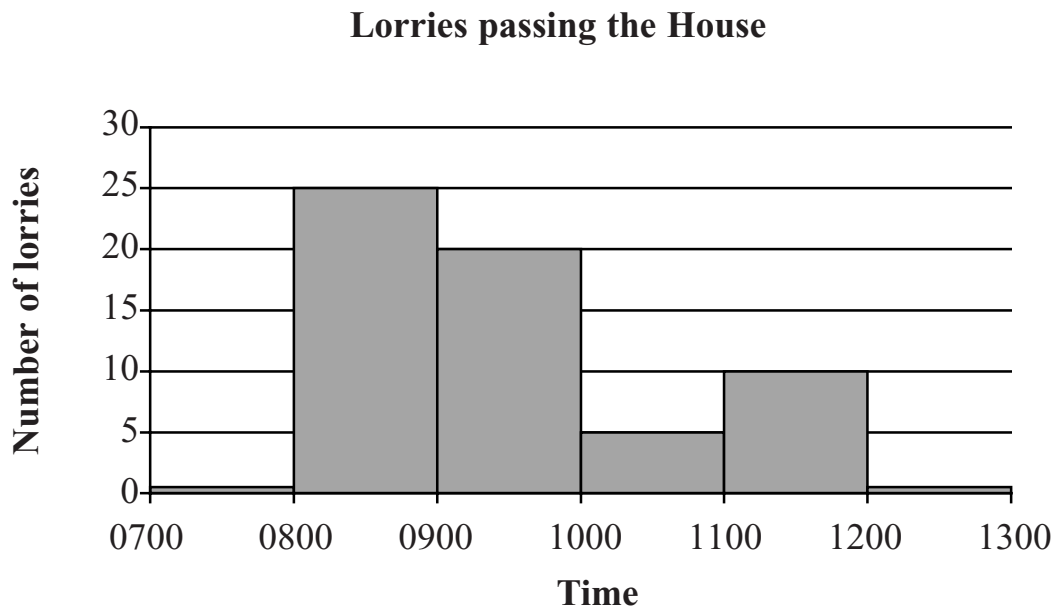
11 A CD has a total playing time of 1 hour 13 minutes.

It has been playing for 39 minutes.

How much longer will it play?

- A 21 minutes
- B 34 minutes
- C 74 minutes
- D 112 minutes

- 12 A householder thinks that too many lorries pass his house. He collects some information on a Thursday morning to send to the council. This chart shows the results.



- Which period had the largest number of lorries passing the house?
- A 0800 to 0900
  - B 0900 to 1000
  - C 1000 to 1100
  - D 1100 to 1200
- 13 The attendance figure at a football match is 17 000 to the nearest 1000. What is the smallest possible number of people who went to this match?
- A 16 500
  - B 16 950
  - C 16 995
  - D 17 499

14 2 000 people were asked whether they chose to use 'Soapysuds' or 'Greenclean' to do their washing up.

75% chose 'Greenclean'.

How many people chose 'Greenclean'?

- A 75
- B 150
- C 750
- D 1 500

15 Some friends live in Sheffield.  
They are going on a holiday to Devon.

They want to find the approximate distance to their destination, near Exeter.

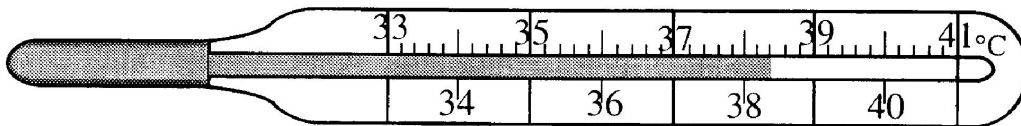
This is a table of distances in miles.

	BIRMINGHAM								
298		EDINBURGH							
164	454		EXETER						
102	224	258		LIVERPOOL					
89	219	246	35		MANCHESTER				
205	495	44	298	286		PLYMOUTH			
76	235	257	79	39	297		SHEFFIELD		
129	193	300	102	71	340	57		YORK	
120	411	200	215	202	241	168	211		LONDON

How far is Exeter from Sheffield?

- A 235 miles
- B 257 miles
- C 258 miles
- D 297 miles

- 16 The petrol tank of a car holds  $10\frac{1}{2}$  gallons.  
On average, the car travels 42 miles to each gallon of petrol.  
How far will the car travel on a full tank of petrol?
- A  $52\frac{1}{2}$  miles  
B  $420\frac{1}{2}$  miles  
C 425 miles  
D 441 miles
- 17 The jackpot in a lottery is £200 403.  
How many pounds is this written in words?
- A Two hundred and forty three  
B Twenty thousand forty hundred and three  
C Two hundred thousand four hundred and three  
D Two million four hundred and three
- 18 A mother takes her son's temperature.



What temperature does the thermometer show?

- A  $38.2^{\circ}\text{C}$   
B  $38.4^{\circ}\text{C}$   
C  $38.5^{\circ}\text{C}$   
D  $39.3^{\circ}\text{C}$

Questions 19 and 20 are about the times an athlete takes to run 100 metres.

19 An athlete takes 13.18 seconds to run 100 metres.

What is this time to the nearest tenth of a second?

- A 13.0 seconds
- B 13.1 seconds
- C 13.2 seconds
- D 14.0 seconds

20 The same athlete takes only 12.46 seconds in his next race.

He calculates that his time has improved by 0.72 seconds.

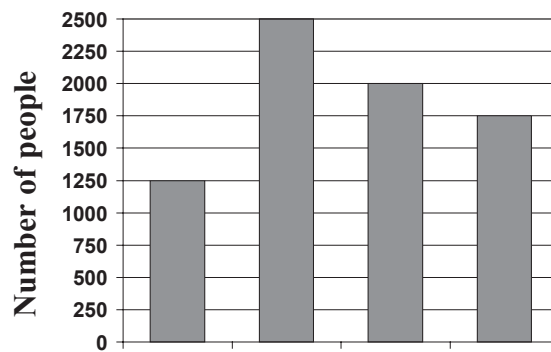
Which of these calculations can he use to check that he is correct?

- A  $12.46 \div 0.72$
- B  $12.46 - 0.72$
- C  $12.46 + 0.72$
- D  $12.46 \times 0.72$

**PLEASE GO TO NEXT PAGE**

A theme park has four rides called Big Brother, Devil's Drop, Terror Tunnel and Water Wonder. This chart shows the number of people who went on each ride on a Thursday.

Number of people on each ride on Thursday



- 21 What is missing from the chart?
- A Title
  - B Labels to show what the bars mean
  - C Label for the vertical axis
  - D Scale for the number of people
- 22 The total number of rides taken was 7 500.  
What fraction of these went on the most popular ride?
- A  $\frac{1}{6}$
  - B  $\frac{1}{4}$
  - C  $\frac{1}{3}$
  - D  $\frac{1}{2}$

23 7500 rides were taken on Thursday.

The number of rides taken on Friday was only 20% of Thursday's total.

How many rides were taken on Friday?

A 200

B 750

C 1500

D 3750

A fair ground organiser draws a plan of the field to show the positions of the stalls and games. He uses a scale of 1cm to 2m.

24 The table for the cake stall is 1.94 metres long.

How long is it on the plan?

- A 0.97cm
- B 3.88cm
- C 9.70cm
- D 38.80cm

25 On the plan, the space roped off for pony rides is 1.8cm by 11cm.

The actual measurements of this space are

- A 3.6m by 22m
- B 9m by 55m
- C 36m by 220m
- D 90m by 550m

26 A stall holder is making rolls to sell at the fair.

The ingredients below make 12 rolls.

300g flour	1 level teaspoon baking powder
90g sugar	250ml milk
2 eggs	4 tablespoons sunflower oil

How much flour does he need to make 60 rolls?

- A 150g
- B 1500g
- C 1800g
- D 18000g

**PLEASE GO TO NEXT PAGE**

A swimmer is training for a competition.

27 The length of the swimming pool is 50m.

The swimmer swims 2.5 km.

How many lengths is this?

A 5

B 20

C 50

D 200

28 A swimmer goes swimming three times a week.

It costs her 75p every time she goes.

How much does she spend in 6 weeks?

A £2.25




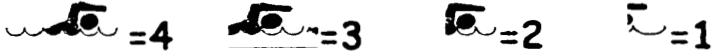
B £4.50

C £9.00

D £13.50

- 29 A swimming pool manager shows on a pictogram the number of people swimming at 10.00am.

Number of people swimming

BOYS	
GIRLS	
ADULTS	
	

How many adults were swimming?

- A 7  
 B 14  
 C 26  
 D 28
- 30 A Swimming pool attendant adds chemicals to the pool each day.  
 He mixes chemicals labelled 'Fresh' and 'Safe' in a ratio of 3 : 2.  
 How much 'Fresh' is there in one litre of mixture?

- A  $\frac{2}{5}$  litre  
 B  $\frac{3}{5}$  litre  
 C  $\frac{5}{3}$  litre  
 D  $\frac{3}{2}$  litre

A runner is training for the London marathon.

He measures how far he runs every day for a week. The results are in this table.

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Distance (km)	16	18	14	18	17	21	8

31 What is the average (mean) distance per day that he runs?

- A 8km
- B 13km
- C 16km
- D 18km

32 The marathon is approximately 42km long.

On which day did the runner run  $\frac{1}{3}$  of this distance?

- A Monday
- B Wednesday
- C Friday
- D Saturday

33 The chart shows the number of members of a club over four years.

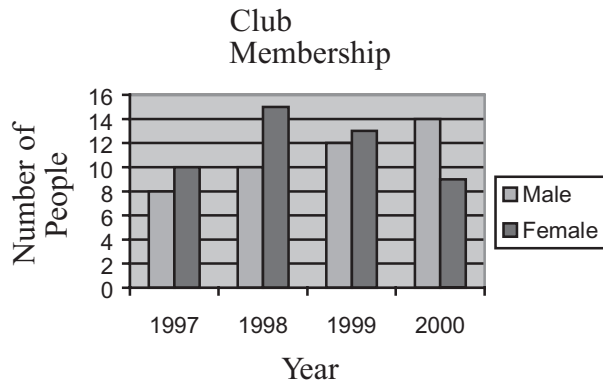


Table a	1997	1998	1999	2000
Female	8	10	12	14
Male	10	15	13	9

Table b	Jan	Feb	March	April
Male	8	10	12	14
Female	10	15	13	9

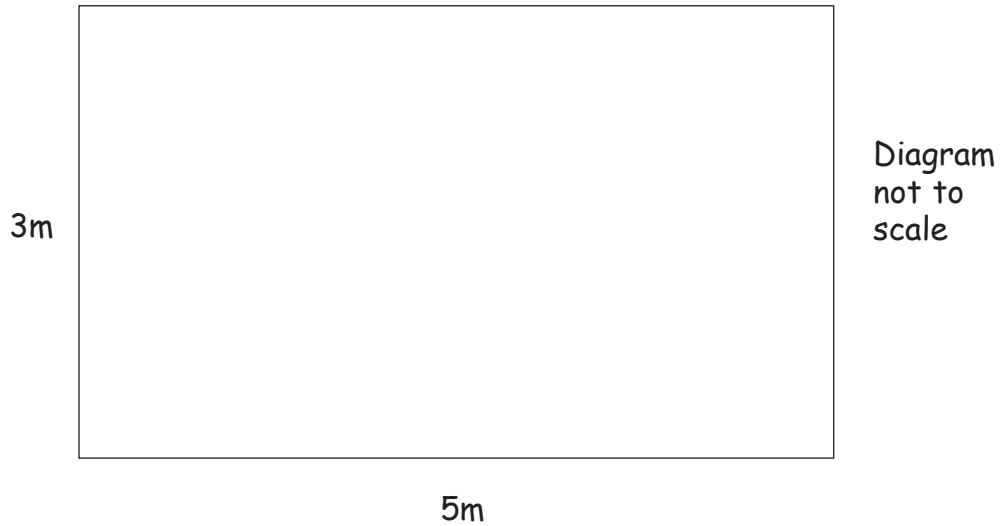
Table c	1997	1998	1999	2000
Male	80	100	120	140
Female	100	150	130	90

Table d	1997	1998	1999	2000
Male	8	10	12	14
Female	10	15	13	9

Which table shows the correct information?

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

34 The diagram shows a parking space.



The owner buys square paving slabs to cover the space.

The length of a side of a slab is 50 centimetres.

How many slabs does he need to pave the parking space?

- A 15
- B 16
- C 30
- D 60

35 A gardener opens her garden to raise money for charity.

She takes £345.

She decides to give  $\frac{2}{3}$  of the money to a local playgroup.

Which calculation tells her how much to give to the playgroup?

- A  $£345 \div 2 \div 3$
- B  $£345 \div 3 \times 2$
- C  $£345 \div 2 \times 3$
- D  $£345 \times 2 \times 3$

36 A man lives 1 kilometre from a shop.

It takes him 15 minutes to walk to the shop.

His walking speed is

- A 4 metres per minute
- B 4 kilometres per minute
- C 4 metres per hour
- D 4 kilometres per hour

37 A sari uses 3.85 metres of material.

The material costs £6.98 per metre.

Which of these methods of estimating the cost of material is most accurate?

- A  $3 \times 6$
- B  $3 \times 7$
- C  $4 \times 6$
- D  $4 \times 7$

- 38 In 1999 a supermarket chain made £50 million in profit.  
In 2000 the supermarket chain only made £40 million in profit.  
What percentage of the 1999 profit is this?
- A 10%
  - B 40%
  - C 80%
  - D 90%
- 39 As a result of reduced sales in a supermarket chain 600 workers lose their jobs.  
Of these, 480 are women.  
What is the ratio of men to women who lose their jobs?
- A 1 : 5
  - B 1 : 4
  - C 4 : 1
  - D 5 : 1
- 40 The Tower Hotel has 445 bedrooms.  
Each bedroom has two clean towels every day.  
Which calculation will give the number of clean towels needed in a week?
- A  $445 \div 7 \div 2$
  - B  $445 \times 2 \div 7$
  - C  $445 \div 2 \times 7$
  - D  $445 \times 2 \times 7$

**END OF TEST**