

**Key skills application of number  
Adult numeracy  
Level 1**

**Practice Test Paper J**

**YOU NEED**

- This test paper
- An answer sheet

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 in the question 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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Note for learners and tutors. This is a practice test that has been put together using questions similar to those that you would find in a "live" Key skills application of number or Adult numeracy test. The layout of the test is also the same as that used for a live test.

1 In a factory a machine fixes handles to cups.

It fixes 27 650 handles each week.

What is this to the nearest 1 000?

- A 27 000
- B 27 500
- C 28 000
- D 30 000

Questions 2 to 5 are about a theme park.

The table shows the entry prices for a theme park.

Family Ticket	£38.00
Adults (10 years and older)	£11.50
Children 3-9 years	£10.50
Senior Citizens	£9.50
Groups (Minimum Number 20)	£9.85 each person

2 How much does a family of two adults and two 8 year old children save by buying a family ticket?

- A £8
- B £6
- C £5
- D £4

3 A group of 29 people buy tickets.

Which calculation gives the **best estimate** for the total cost in pounds?

- A  $20 \times 9$
- B  $20 \times 10$
- C  $30 \times 9$
- D  $30 \times 10$

4 A group of 8 teenagers and one 7 year old visit the theme park.

Which calculation gives their total cost for entry?

- A  $£11.50 \times 8 + £10.50$
- B  $£10.50 \times 8 + £11.50$
- C  $£9.85 \times 9$
- D  $£9.85 \times 8$

5 After 5pm, the entry prices are reduced by £2.75.

A 16-year old girl arrives at 6pm.

How much does she pay?

- A £6.75
- B £7.75
- C £8.75
- D £9.85

Questions 6 to 10 are about a petrol filling station.

The diagram shows a tyre pressure gauge.

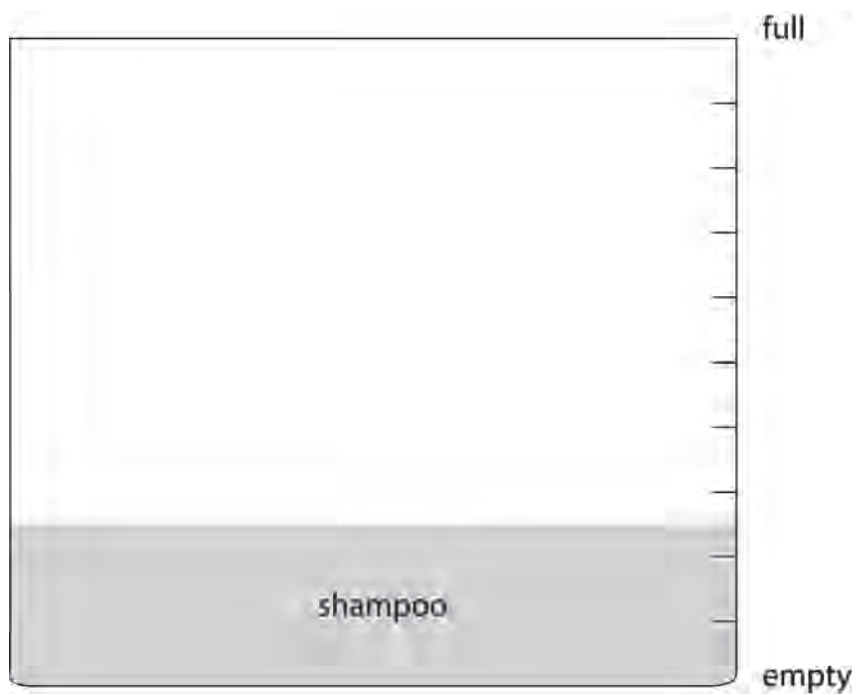


6 The tyre pressure gauge reads

- A 32 lbs/sq in
- B 33 lbs/sq in
- C 36 lbs/sq in
- D 38 lbs/sq in

- 7 A petrol station attendant checks how much shampoo is left in the tank for the car wash.

The diagram shows the reading on the tank.



How full is the tank?

- A  $\frac{1}{4}$
- B  $\frac{3}{10}$
- C  $\frac{1}{3}$
- D  $\frac{1}{5}$

8 Unleaded petrol costs 79.6 pence per litre.

20 litres cost

- A £14.82
- B £14.92
- C £15.82
- D £15.92

9 A customer pays £15.40 for petrol and £2.75 for oil.

He pays with a £20 note.

His change is

- A £1.85
- B £2.15
- C £2.85
- D £3.15

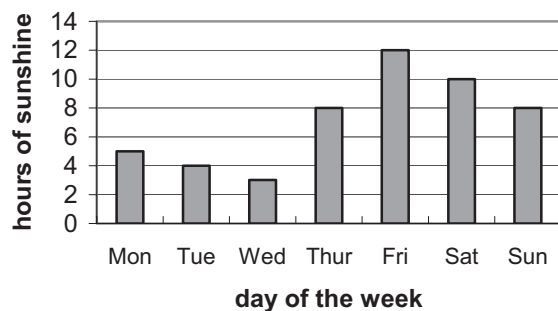
10 The petrol station attendants are paid £4.25 per hour.

One of them works for 9 hours.

How much is her pay for 9 hours?

- A £36.85
- B £37.25
- C £37.75
- D £38.25

11 The chart shows the hours of sunshine for one week at a holiday resort.



What is missing from the chart?

- A the label for the x axis
- B the label for the y axis
- C the title for the chart
- D the bar for Sunday

Questions 12 and 13 are about using the internet.

The time taken to connect to the internet varies.

A person keeps a record of how long it takes her to connect to the internet.

Internet connection time in seconds	25	12	10	10	12	15	14	20	8	12
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12 The range of the times it takes her to connect to the internet is

- A 8 seconds
- B 13 seconds
- C 17 seconds
- D 25 seconds

13 The average (mean) time it takes her to connect to the internet is

- A 12.5 seconds
- B 13.0 seconds
- C 13.8 seconds
- D 14.0 seconds

Questions 14 and 15 are about distances.

14 A teacher leaves her house, marked **H** on the map. She walks to the school, marked **S**.



2cm = 1km

What is the direct distance between the teacher's house and the school along the main road to the nearest half a kilometre?

- A 1km
- B  $1\frac{1}{2}$  km
- C 2km
- D  $2\frac{1}{2}$  km

15 The teacher can walk at 5km an hour.

How long would it take her to walk 27.5km at 5km an hour?

- A 137.5 hours
- B 55 hours
- C 5.5 hours
- D 5 hours

- 16 The table shows the number of young people who took part in the Duke of Edinburgh Award in two different years.

	Numbers (in thousands)	
	Year 1	Year 2
Total Entrants	122	200
Bronze Award	18	23
Silver Award	7	10
Gold Award	3	7

What percentage of the total entrants in Year 2 gained the Silver Award?

- A 5%
- B 10%
- C 20%
- D 25%

Questions 17 and 18 are about newspapers and magazines.

- 17 In one month a family had 24 daily papers at 30p each and 4 Sunday papers at 50p each.

Which calculation gives the total cost in pence?

- A  $(24 + 30) \times (4 + 50)$
- B  $(24 \times 30) + (4 \times 50)$
- C  $(24 + 4) \times (30 + 50)$
- D  $(24 \times 4) + (30 \times 50)$

- 18 The family buys 4 computer magazines at £2.95 each and 5 gardening magazines at £1.95 each.

What is the total cost of the magazines?

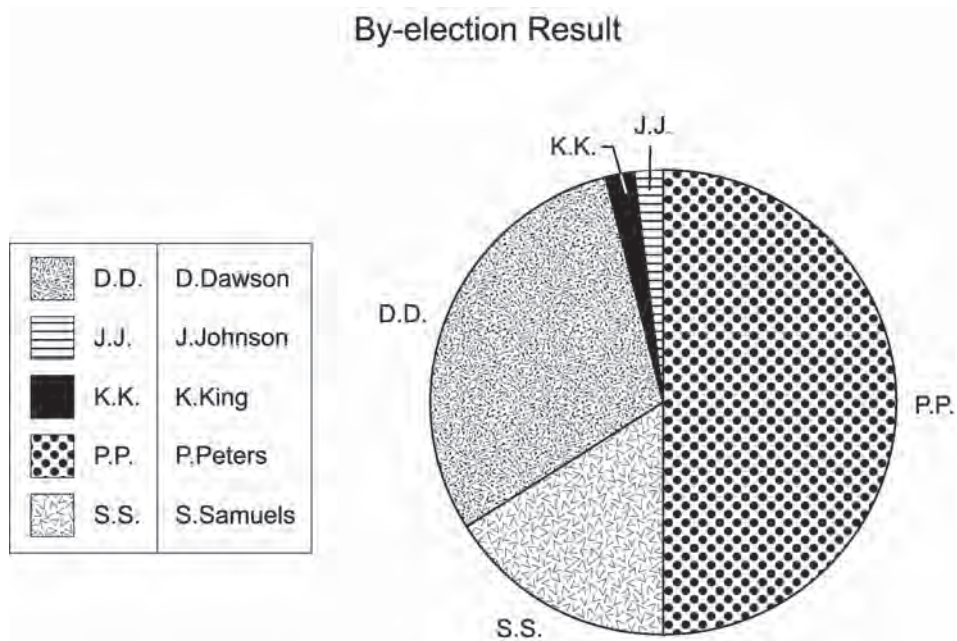
- A £4.90
- B £11.80
- C £21.55
- D £22.55

Questions 19 to 21 are about an election.

In a parliamentary by-election there were 5 candidates:

D. Dawson, J. Johnson, K. King, P. Peters, and, S. Samuels.

The pie chart illustrates the result of the election.



19 Which candidate got about 50% of the votes?

- A D. Dawson
- B S. Samuels
- C K. King
- D P. Peters

20 28 800 people voted in the by-election.

D. Dawson got  $\frac{3}{10}$  of the votes.

How many votes did he get?

- A 864
- B 2 880
- C 8 640
- D 9 600

21 P. Peters got fourteen thousand four hundred and four votes.

This can be written as

- A 1 404
- B 14 404
- C 14 444
- D 140 404

Questions 22 to 26 are about decorating.

A decorator plans to decorate a bedroom.

22 The decorator calculates the area of the walls to work out how much paint to buy.

A unit for area is

- A m
- B  $m^2$
- C  $m^3$
- D  $m^4$

23 He buys 4 tins of paint at £8.48 each.

The bill total is £33.92.

Which calculation can he use to check the bill?

- A  $4 \div 33.92$
- B  $33.92 - 8.48$
- C  $33.92 \div 4$
- D  $8.48 \div 33.92$

24 Emulsion paint needs thinning using 1 part water to 4 parts paint.

The decorator thins some of the paint.

How much water should he add to 7 litres of paint?

- A 1.4 litres
- B 1.75 litres
- C 28 litres
- D 35 litres

25 A scaled diagram of the floor measures 2.5cm long.

The scale is 1 centimetre = 2 metres.

What is the real length of the floor?

- A 1.25m
- B 5.0m
- C 12.5m
- D 50.0m

26 The owner buys carpet for the bedroom.

The carpet costs one hundred and eight pounds and eight pence.

In figures, this amount is

- A £108.08
- B £108.8
- C £1 008.08
- D £1 008.8

Questions 27 to 32 are about the work of a gardener.

27 The diagram shows a garden patio.

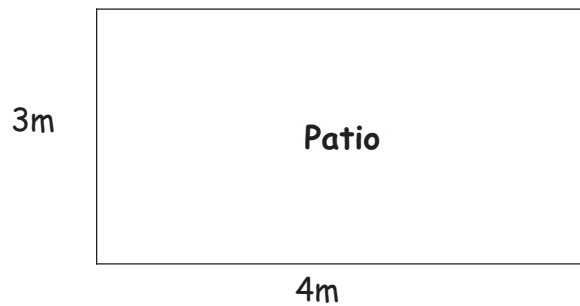


Diagram not to scale

The gardener buys square paving slabs to cover the patio.

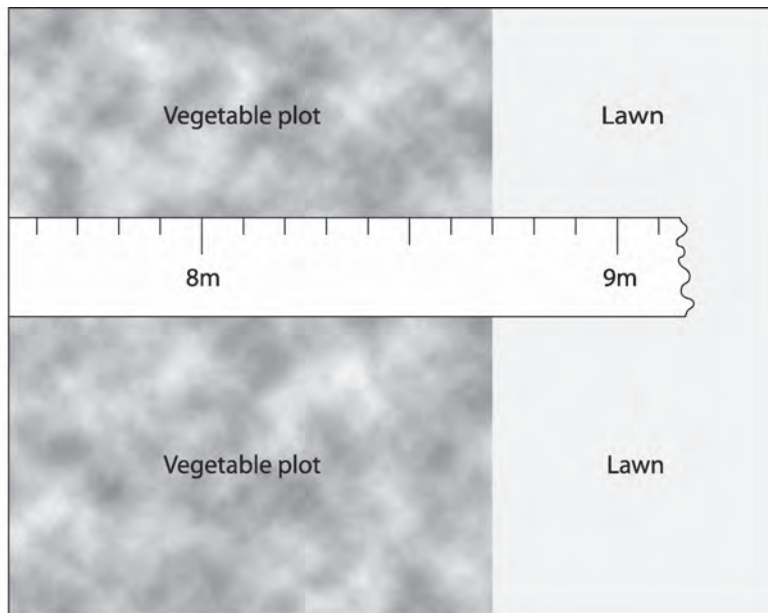
The length of a side of a slab is 50cm.

How many slabs does he need?

- A 12
- B 14
- C 24
- D 48

28 The gardener measures his vegetable plot.

The diagram shows part of his tape measure.



What measurement does the tape show at the border between the vegetable plot and the lawn?

- A 8m 7cm
- B 8m 70cm
- C 9m 3cm
- D 9m 30cm

29 The gardener wants 440 daffodil bulbs.

The bulbs are sold in packets of 25.

How many packets does he need to buy?

- A 15
- B 16
- C 17
- D 18

- 30 The gardener cleans his pond.

The diagram shows the pond that has been emptied for cleaning.

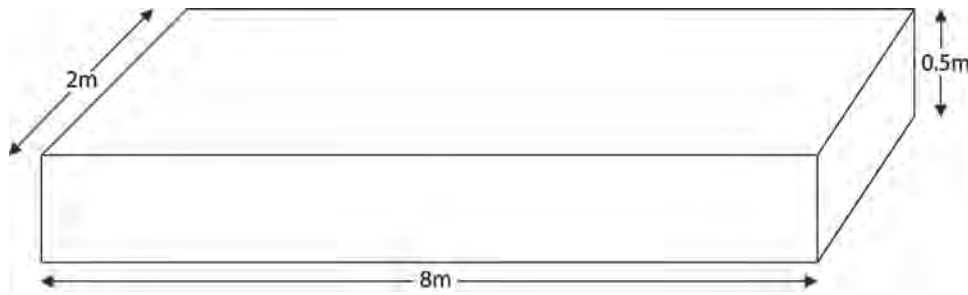


Diagram not to scale

How much water will be needed to refill it completely?

- A  $8\text{m}^3$
  - B  $16\text{m}^3$
  - C  $32\text{m}^3$
  - D  $800\text{m}^3$
- 31 The gardener opens his garden to raise money for charity.

He takes £296.

He decides to give  $\frac{3}{4}$  of the money to a local hospital.

Which calculation tells him how much to give to the hospital?

- A  $\text{£}296 \div 3 \div 4$
- B  $\text{£}296 \div 4 \times 3$
- C  $\text{£}296 \div 3 \times 4$
- D  $\text{£}296 \times 3 \times 4$

32 The gardener wants to buy a new barbecue that normally costs £80.

He sees it in a sale with '20% off'.

What is the sale price?

- A £16
- B £20
- C £60
- D £64

Questions 33 to 35 are about a weather chart.

The weather chart gives readings for one day in 8 towns.

	Sunshine (hrs)	Rain (ins)	Temp (°C)	
			(min)	(max)
Bognor Regis	3.4	0.01	6	15
Bournemouth	3.9	0.02	2	15
Folkestone	8.5	0.00	7	16
St Helier	4.5	0.00	8	14
Morecambe	11.5	0.00	6	17
Swanage	3.4	0.00	5	13
Torquay	12.3	0.00	8	17
Weymouth	6.4	0.01	6	14

33 What fraction of the maximum temperatures is **greater** than 15°C?

A  $\frac{1}{4}$

B  $\frac{3}{8}$

C  $\frac{5}{8}$

D  $\frac{6}{8}$

34 The hours of sunshine are rounded to the nearest

A  $\frac{1}{10}$  of an hour

B  $\frac{1}{5}$  of an hour

C  $\frac{1}{2}$  an hour

D hour

35 Which of these charts showing the hours of sunshine at the 8 towns is correct?

Chart a

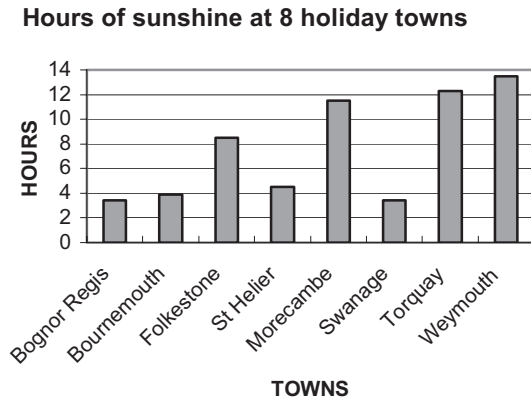


Chart b

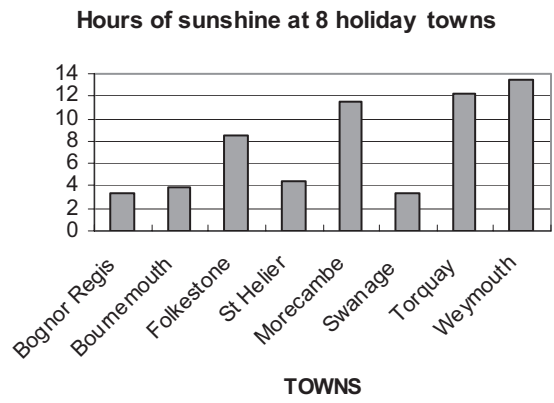


Chart c

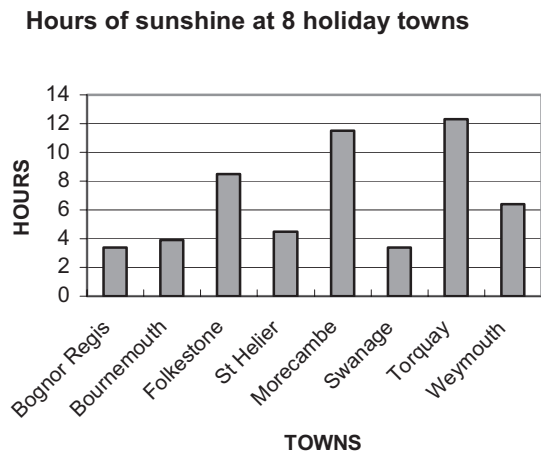
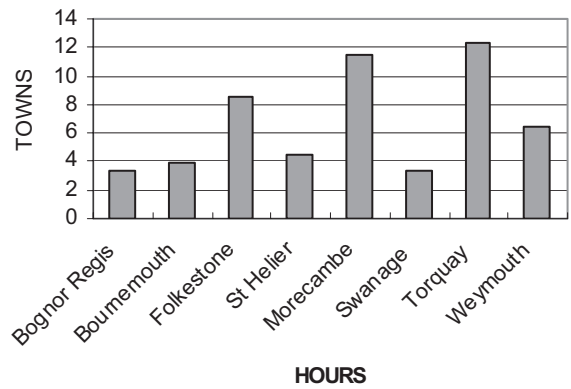


Chart d



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

Questions 36 and 37 are about savings.

36 The table shows the amount a young man saves in 6 months.

Jan	Feb	March	April	May	June
£25	£20	£24	£18	£18	£15

The average (mean) amount he saves each month is

- A £10
- B £18
- C £20
- D £24

37 A building society pays 4% per year interest on a savings account.

The interest on £200 for one year is

- A 80p
- B £8
- C £80
- D £800

38 A large company makes £2½ million profit.

Which of the following is a correct way of writing this amount?

- A £2.5 000 000
- B £250 000
- C £2 000 000.5
- D £2 500 000

Questions 39 and 40 are about a train timetable for the London Paddington to Swansea route.

This is part of a train timetable for the London Paddington to Swansea route.

London Paddington	d	1900	1915	1945	2000	2030	2100	2130	2200	2230
Reading	d	1925	1940	2010	2029	2055	2125	2155	2225	2300
Didcot Parkway	d	-	1954	2023	-	2108	-	2208	2239	2313
Swindon	d	1953	2014	2043	2057	2128	2159	2228	2259	2332
Chippenham	d	-	2027	2056	-	2142	-	2241	-	2346
Bath Spa	a	-	2039	2108	-	2154	-	2253	-	2357
Bristol Parkway	d	2020	-	-	2124	-	2224	-	2326	-
Bristol Temple Meads	a	-	2055	2125	-	2208	-	2306	-	0015
Newport	a	2041	-	-	2145	-	2239	-	2349	-
Cardiff Central	a	2057	-	-	2201	-	2324	-	0014	-
Bridgend	a	2118	-	-	2221	-	2326	-	0036	-
Port Talbot Parkway	a	2131	-	-	2234	-	2339	-	0049	-
Neath	a	2139	-	-	2242	-	2347	-	0057	-
Swansea	a	2157	-	-	2300	-	0010	-	0120	-

a - arrive d - depart

39 Alan arrives at Reading station at 2015.

He catches the next train to Cardiff Central.

At what time does he arrive in Cardiff Central?

- A 2057
- B 2201
- C 2300
- D 0014

40 Which train from London Paddington to Swansea has the shortest journey time?

- A 1900
- B 2000
- C 2100
- D 2200

**End of test**