

Key skills application of number

Adult numeracy

Level 1

Test Paper A

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

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

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**

- 1 The capacity of a carton of milk is 500ml.
Another unit for capacity is
- A litres
 - B centimetres
 - C square centimetres
 - D kilograms
- 2 A charity raises fifteen thousand and fifteen pounds.
What is this amount expressed in figures?
- A £1 515
 - B £15 015
 - C £150 015
 - D £1 500 015
- 3 A charity organises a dance.
Two hundred and fifty people pay £1.50 each.
How much do they pay altogether?
- A £37.50
 - B £375.00
 - C £3 750.00
 - D £37 500.00
- 4 At a dance 1 000 raffle tickets are sold.
There are ten prizes to be won.
What fraction of tickets will win a prize?
- A $\frac{1}{1000}$
 - B $\frac{1}{990}$
 - C $\frac{1}{100}$
 - D $\frac{1}{10}$

Questions 5 and 6 are about the Millennium Stadium.

5 64 241 people attend a football match at the Millennium Stadium.

What is this number rounded to the nearest thousand?

- A 64 000
- B 64 200
- C 64 240
- D 65 000

6 The attendance at a football match is thirty-two thousand five hundred and eight.

Written in figures this is:

- A 32 508
- B 32 580
- C 325 008
- D 3 200 508

Questions 7 and 8 are about a builder's wages.

7 A builder is paid £6.20 an hour.

He works 39 hours a week.

Which of these is the **closest** estimate of his total pay for the week?

- A £6 × 30
- B £7 × 30
- C £6 × 40
- D £7 × 40

8 A builder saves £35 each week towards a holiday.

How can he work out how many weeks it will take to save £650?

- A $35 \div 650$
- B $650 \div 35$
- C $650 - 35$
- D 35×650

9 Here is part of a shop catalogue for pocket calculators.

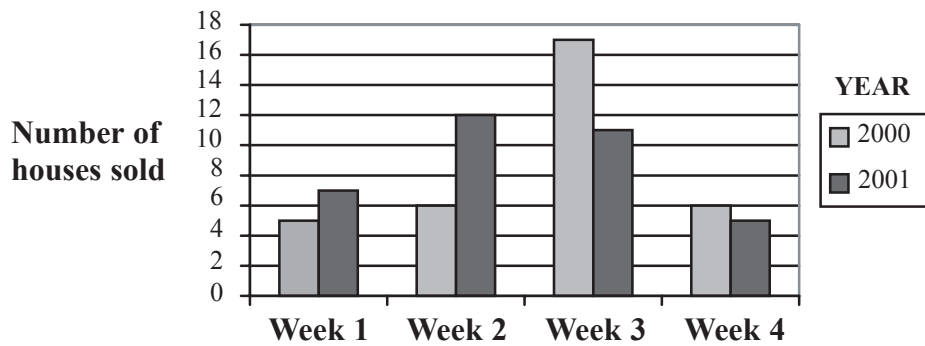
Item Number	Catalogue Number	Description	Power	Digits	Functions	Case	Memory	Colour of case	Price
6	680/453	Sinclair 3D	B	8	64	Wallet	Virtual	Black	£6.75
7	680/522	Texas 23S	S	8	128	Hard	Virtual	Black	£7.75
8	680/344	Casio 125	S	10	128	Hard	Virtual	Blue	£9.99
9	580/238	Texet DF	B	10	79	Wallet	Virtual	Black	£9.25
10	580/212	Sharp 34D	B	10	64	Wallet	Bubble	Blue	£11.50

What is the price of the calculator that has 10 digits, a virtual memory and a black case?

- A £11.50
- B £9.99
- C £9.25
- D £7.75

10 This graph shows house sales for July in the years 2000 and 2001.

House Sales - July 2000 and July 2001



How many houses were sold in total in July 2000?






















- A 32
- B 33
- C 34
- D 35

11 A water bottle is 75% full.

What fraction of the water has been used?

- A $\frac{3}{4}$
- B $\frac{1}{4}$
- C $\frac{1}{25}$
- D $\frac{1}{75}$

- 12 This pictogram shows the number of houses built by Stubbs Builders from March to July 1999.

March	  
April	   
May	    
June	     
July	  

Number of houses built by Stubbs Builders from March to July 1999

What is missing from the pictogram?

- A a key
 - B a title
 - C a horizontal scale
 - D a vertical scale
- 13 The label on a large bottle of juice states 'dilute 1 part juice to 3 parts water'.
How much water must be added to 2 litres of juice?
- A 0.5 litres
 - B 1.5 litres
 - C 6 litres
 - D 8 litres
- 14 These ingredients are for 4 fruit buns.

200g flour
2 eggs
100ml milk
50g currants

How much flour would be needed to make 6 of these fruit buns?

- A 30g
- B 300g
- C 400g
- D 1200g

15 A lift in a block of flats travels from the tenth floor to the second floor.

The distance between each floor is 3.5m.

How far does the lift travel?

A 350m

B 280m

C 35m

D 28m

16 There are six people in a lift.

Their weights are 87.6kg, 92.1kg, 47.3kg, 66.3kg, 52.7kg, 80.2kg.

What is their total weight in kg?

A 4.262

B 42.62

C 426.2

D 4 262.0

17 A gas bill shows that 1 720 units of gas have been used.

Each unit costs 1.5p.

How much does the gas cost?

A £2.58

B £25.80

C £258.00

D £2 580.00

18 This is part of the train timetable from Bristol to London.

A person needs to arrive in London by quarter past eight in the morning.

Bristol	d	0540	0606	0645	0815
Bath	d	0552	0618	0657	0827
Chippenham	d	0603	0629	0708	0838
Swindon	d	0619	0645	-----	0854
Didcot	d	0636	0702	0735	-----
Reading	a	0651	0717	-----	0925
Slough	a	-----	-----	-----	-----
London	a	0721	0753	0818	0956

What is the time of the latest train she can catch from Bristol?

- A** 0540
- B** 0606
- C** 0645
- D** 0815

19 A company makes 80 pizza delivery journeys in one week.

The 80 journeys cover 480 miles altogether.

What is the average journey distance?

- A** 0.6 miles
- B** 6 miles
- C** 60 miles
- D** 400 miles

20 A pizza delivery bike does 20 miles to each litre of petrol.

Petrol costs 75p per litre.

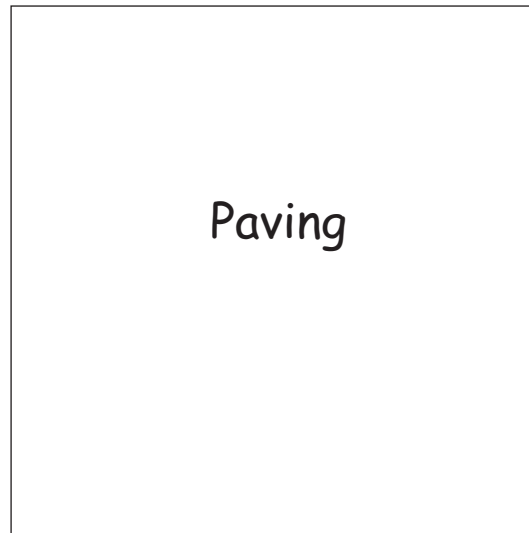
Which calculation gives the total cost of the petrol in pence for the 480 miles travelled in a week?

- A** $(480 \div 75) \times 20$
- B** $(480 - 20) \times 75$
- C** $(480 \div 20) \times 75$
- D** $(480 - 20) \div 75$

Please go to the next page

A builder lays a square area of paving.

21 The builder uses a scale drawing.



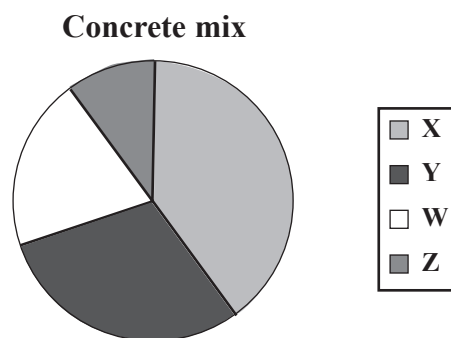
Scale: 2cm represents 1m.

What is the actual length of one side of the paving?

- A 0.7m
- B 3.5m
- C 7m
- D 14m

22 The base is made of concrete.

Concrete is a mixture of stones, sand, cement and water in the ratio 4 : 3 : 2 : 1.



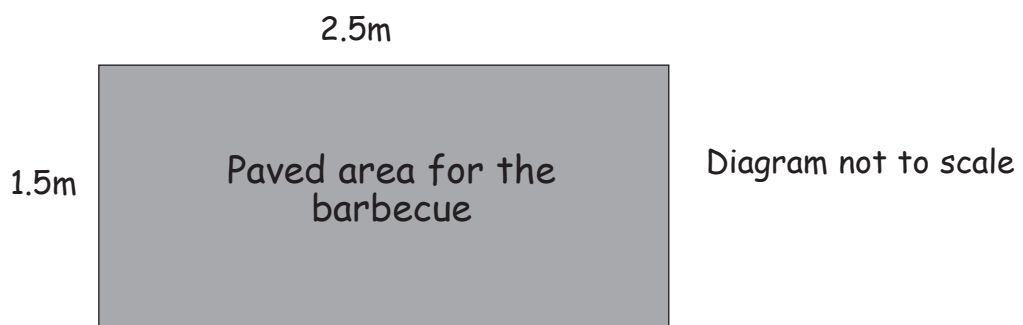
Which sections of the pie chart show the proportions of **sand** and **cement**?

- A W and X
- B X and Y
- C Y and W
- D Z and W

- 23 A builder lays a path in a garden.
He uses square slabs with sides 45 cm. long.
The path is 2 slabs wide and 9m long.
How many slabs does the builder lay?

- A 10
- B 20
- C 40
- D 400

- 24 Another area is paved for a barbecue.



The area paved for the barbecue is

- A 3.25m^2
- B 3.50m^2
- C 3.75m^2
- D 4.00m^2

- 25** In one year, 5 471 young people went to Buckingham Palace to receive an award.
How many is this to the nearest 100?
- A** 5 000
 - B** 5 400
 - C** 5 470
 - D** 5 500
- 26** An optician examines 24 patients.
Three quarters of them need spectacles.
How many of the patients need spectacles?
- A** 6
 - B** 15
 - C** 18
 - D** 20
- 27** A supermarket had 444 customers in one morning.
Of these, 111 were men.
What percentage of the customers were men?
- A** 4%
 - B** 20%
 - C** 25%
 - D** 44%
- 28** A loaf of bread weighs 400 grams.
What is the weight of 50 loaves?
- A** 2kg
 - B** 20kg
 - C** 200kg
 - D** 2 000kg

This table shows the number of hours a teenager spends watching television each day.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
2	4	0	2	4	4	5

29 The average (mean) of these numbers is

- A 3
- B $3\frac{1}{2}$
- C 4
- D 5

30 The range of these numbers is

- A 2
- B 3
- C 4
- D 5

31 This table shows the entry prices for a theme park.

Family Ticket (2 adults & 2 children)	£ 38.00
Adult (10 years and over)	£ 11.50
Children (3-9 years)	£ 10.50
Senior Citizens	£ 7.50
Groups (Minimum number 20)	£ 9.75

A group of six teenagers and one 9 year old visit the theme park.

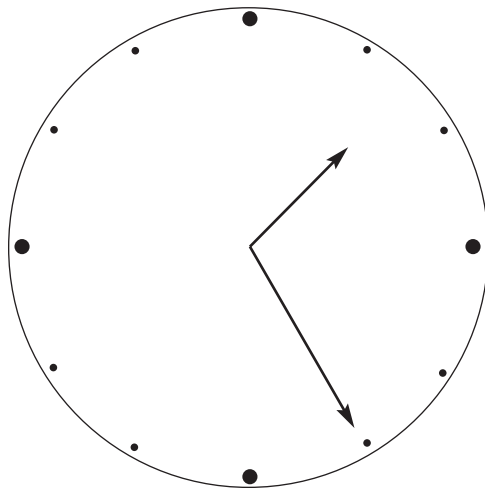
Which calculation gives their total entry cost?

- A $£9.75 \times 7$
- B $£9.75 \times 6 + £10.50$
- C $£10.50 \times 6 + £11.50$
- D $£11.50 \times 6 + £10.50$

32 The queuing time for the "Big Splash" ride is 50 minutes.

A boy checks his watch when he joins the queue.

The diagram shows the time on his watch.



What time should his ride start?

- A 1355
- B 1405
- C 1415
- D 1420

This table shows the number of people who attended different showings of a film.

2:30pm	4:30pm	7:00pm	9:30pm
150	175	225	250

33 One hundred of those who attended the 2:30pm showing were Senior Citizens.

What fraction is this?

A $\frac{1}{3}$

B $\frac{2}{5}$

C $\frac{2}{3}$

D $\frac{4}{5}$

34 The cinema manager estimated that 40% of the people who attended the 9:30pm showing bought a bag of popcorn.

How many bags of popcorn was this?

A 40

B 80

C 100

D 120

35 Petrol costs 78.9p per litre.

A driver buys 10 litres.

A **correct** way to write the total cost is

A £78.90

B 7 890p

C £7.89p

D £7.89

36 A car travels 150 miles and uses 20 litres of petrol.

Which calculation shows how many miles on average the car travels on 1 litre?

A 150×20

B $150 \div 20$

C 20×150

D $20 \div 150$

37 On average, the amount of petrol a driver uses from Monday to Friday is three times the amount he uses at a weekend.

The driver uses 24 litres in a typical weekend.

How much petrol does he use in a typical whole week?

A 8 litres

B 18 litres

C 72 litres

D 96 litres

- 38 A student uses his calculator to work out $7\,000 \div 23$.
This is the display on his calculator:

A digital calculator display showing the number 304.34782. The display is enclosed in a rounded rectangular border.

What is his answer rounded to the nearest whole number?

- A 300
 - B 304.3
 - C 304
 - D 305
- 39 A driving test is booked for 1330.
A learner driver leaves home at 1145.
How many minutes before the driving test is this?
- A 90
 - B 105
 - C 165
 - D 2 475
- 40 A learner driver takes her driving theory test.
She answers 30 questions in fifteen minutes.
What is the mean time she takes to answer each question?
- A 2 seconds
 - B 3 seconds
 - C 20 seconds
 - D 30 seconds

END OF TEST