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QUALIFICATIONS,  
CURRICULUM &  
ASSESSMENT AUTHORITY  
FOR WALES



# 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
- 

**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/L1/3.1/P31/URN:136

Questions 1 to 7 are about a family trip to Scotland in November.

- 1 The family want to catch the 11:35am train to Scotland.

The travelling time from the family's home to the railway station is 25 minutes.

They plan to arrive at the station 20 minutes before the train leaves.

What is the **latest** time they should leave home?

- A 10:45am
- B 10:50am
- C 11:10am
- D 11:15am

- 2 Car parking at the railway station costs £5.75 for each full day or £3.00 for up to four hours.

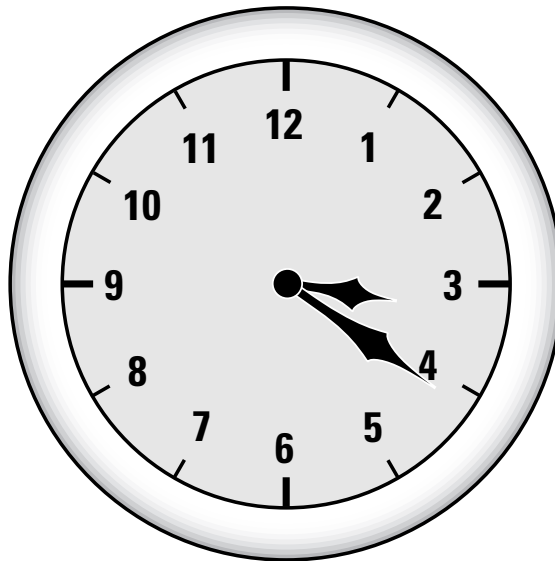
Which calculation shows a method for calculating the total cost of parking for 2 full days and 3 hours?

- A  $£5.75 + £3.00$
- B  $£5.75 \times 2$
- C  $(£5.75 \times 2) + £3.00$
- D  $(£5.75 + 3) \times 2$

**3** The railway carriage has 40 seats.  
32 of the seats are reserved and 8 are unreserved.  
What is the ratio of reserved seats to unreserved seats?

- A 4 : 1
- B 1 : 4
- C 4 : 5
- D 1 : 5

**4** The taxi journey from the station to the hotel takes 20 minutes.



The clock shows the time the family leave the station in a taxi.  
What time will they arrive at the hotel?

- A 1341
- B 1540
- C 1541
- D 1635

- 5** The hotel normally charges £70 per room per night.  
The hotel reduces the price by 20% during November.  
What is 20% of £70?
- A** £7.00
  - B** £14.00
  - C** £20.00
  - D** £20.70

6 The manager produces a chart to show the temperature at midday on five days in November.

Chart a

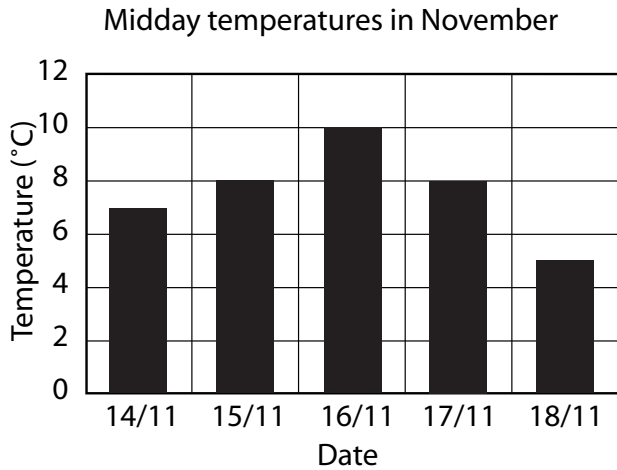


Chart b

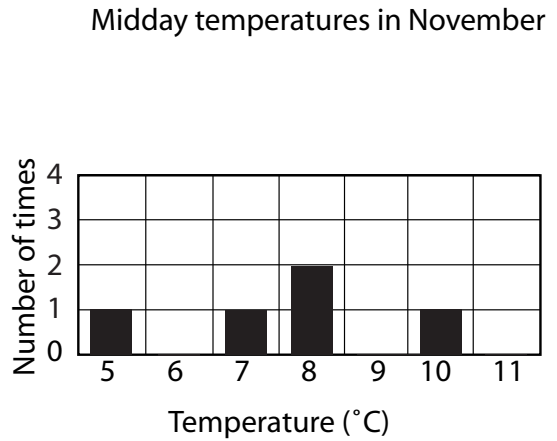


Chart c

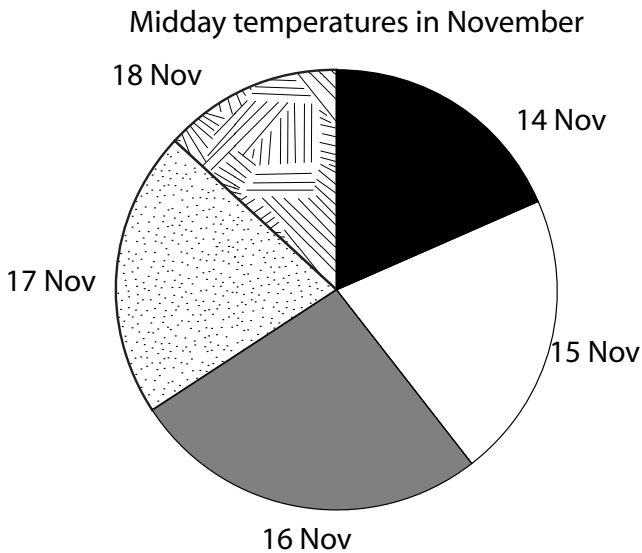
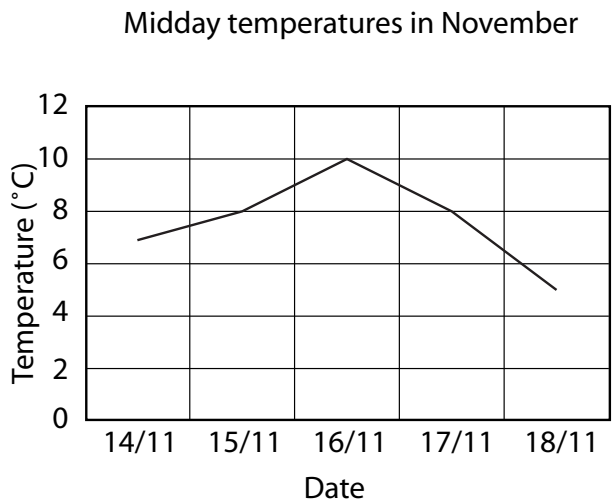


Chart d



Which chart is the **most** suitable to show the midday temperature each day?

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

- 7 The total cost of the trip to Scotland is £718.64  
What is the total cost to the nearest ten pounds?
- A £710
  - B £718
  - C £719
  - D £720

Questions 8 to 12 are about a website.

8 Setting up the website costs a total of £900

80% of this cost is paid to the company who designed the website.

What is 80% of £900?

- A £180
- B £720
- C £800
- D £880

9 The table shows the monthly charge made by various companies for the website.

**Website cost**

	Company					
	A	B	C	D	E	F
Monthly charge (£)	10.50	15.95	9.95	11.20	14.75	9.95

	Company						
	G	H	I	J	K	L	M
Monthly charge (£)	8.90	12.50	10.90	13.75	12.00	11.95	12.50

How many companies charge **more than** £12.00 per month?

- A 3
- B 5
- C 7
- D 8

**10** In the first month the website receives 18 756 visits.

What is this number in words?

- A** eighteen thousand, seven hundred and fifty-six
- B** one hundred and eighty thousand, seven hundred and fifty-six
- C** one hundred and eighty-seven thousand and fifty-six
- D** one million, eight thousand, seven hundred and fifty-six

**11** The website company sells software.

The table shows the software sales over four weeks.

<b>Week</b>	<b>Software sales</b>
1	756
2	1 962
3	2 604
4	2 989

What are the total sales over the four weeks?

- A** 5 191
- B** 8 111
- C** 8 191
- D** 8 311

**12** The table shows the number of visits to the website over a six-week period later in the year.

Visits to the website						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Number of visits (thousands)	15	15	22	10	16	18

What was the average (mean) number of visits each week?

- A 10 000
- B 12 000
- C 15 000
- D 16 000

**Please go on to the next page**

Questions 13 to 16 are about a bank.

**13** The bank has 20 staff.

12 of the staff work full time.

What fraction work full time?

A  $\frac{1}{6}$

B  $\frac{2}{5}$

C  $\frac{3}{5}$

D  $\frac{2}{3}$

**14** A customer deposits a cheque for £1266.37

How much is this to the nearest hundred pounds?

A £1200

B £1260

C £1270

D £1300

**15** A cashier tallies the number of foreign exchange transactions in a week.

Foreign exchange transactions	
Currency	Tally
£ to dollars	IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII
£ to euros	IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII
£ to Swiss francs	IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII II
£ to kroner	IIII IIII IIII IIII IIII IIII IIII IIII IIII

How many transactions were £ to euros?

- A 40
- B 63
- C 73
- D 78

**16** In one year a customer gets 5% interest on his £600 savings.

Which calculation can he use to find the interest?

- A  $\frac{5}{100} \times 600$
- B  $\frac{5}{100} + 600$
- C  $\frac{600}{100} + 5$
- D  $\frac{5}{600} \times 100$

Questions 17 to 25 are about a doctors' surgery.

17 A receptionist is paid £5.50 per hour.

She works 30 hours each week.

How much is she paid each week?

- A £150.00
- B £150.50
- C £155.00
- D £165.00

18 The surgery has five doctors.

The table shows the number of patients seen by each doctor on one day.

Patients seen on one day					
Doctor	A	B	C	D	E
Number of patients	18	22	21	18	16

What is the average (mean) number of patients seen by each doctor on one day?

- A 16
- B 18
- C 19
- D 21

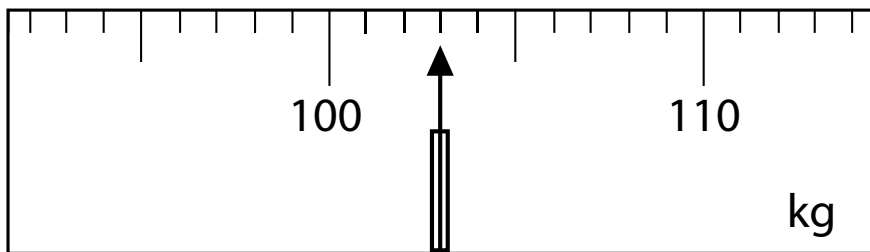
**19** Another day  $\frac{2}{5}$  of the patients are children.

What is  $\frac{2}{5}$  as a percentage?

- A 20%
- B 25%
- C 40%
- D 50%

**20** The nurse weighs a patient.

The diagram shows the reading on the weighing scale.



What is the patient's weight?

- A 100.3kg
- B 103kg
- C 106kg
- D 115kg

**21** The nurse checks another patient's weight in August and in November.

<b>Weight in August</b>	<b>61.84kg</b>
<b>Weight in November</b>	<b>64.62kg</b>

How much weight did the patient gain between August and November?

- A** 2.78kg
- B** 3.22kg
- C** 3.78kg
- D** 3.88kg

**22** The doctor records the patient's temperature.

Temperature can be recorded in

- A** centimetres
- B** degrees Celsius
- C** grams
- D** litres

**23** The table shows the surgery opening hours.

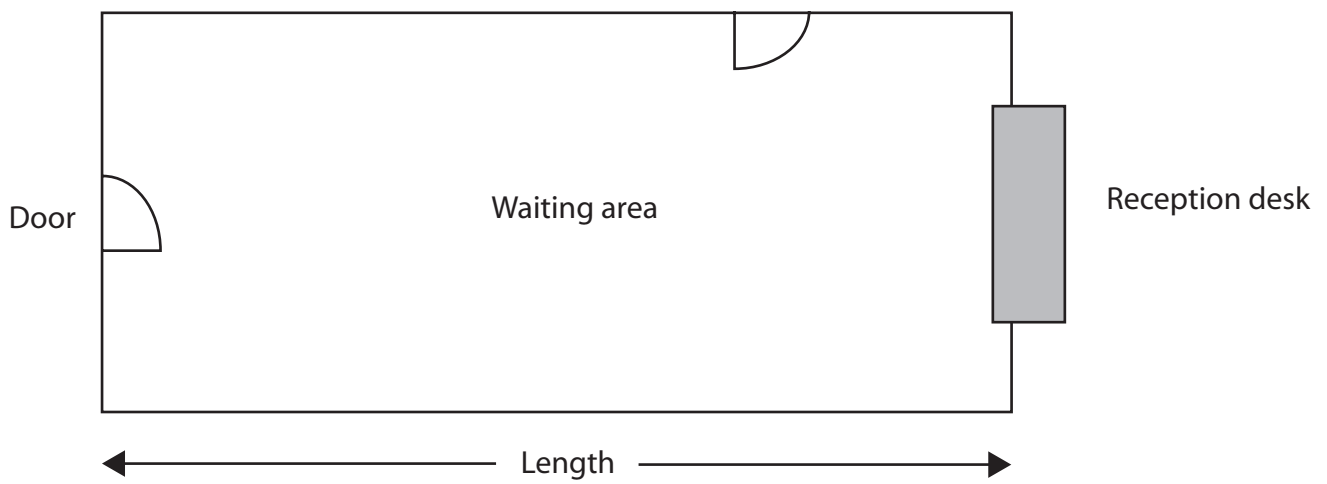
<b>Surgery opening hours</b>		
	<b>Morning</b>	<b>Afternoon</b>
<b>Monday</b>	8:00 – 12:00	1:00 – 7:00
<b>Tuesday</b>	8:00 – 12:00	1:00 – 7:00
<b>Wednesday</b>	8:00 – 12:00	Closed
<b>Thursday</b>	8:00 – 12:00	1:00 – 4:00
<b>Friday</b>	8:00 – 12:00	1:00 – 4:00
<b>Saturday</b>	8:00 – 12:00	Closed

How many hours in total is the surgery open each week?

- A** 36
- B** 38
- C** 42
- D** 48

**Please go on to the next page**

**24** The diagram shows a scale plan of the surgery waiting area.

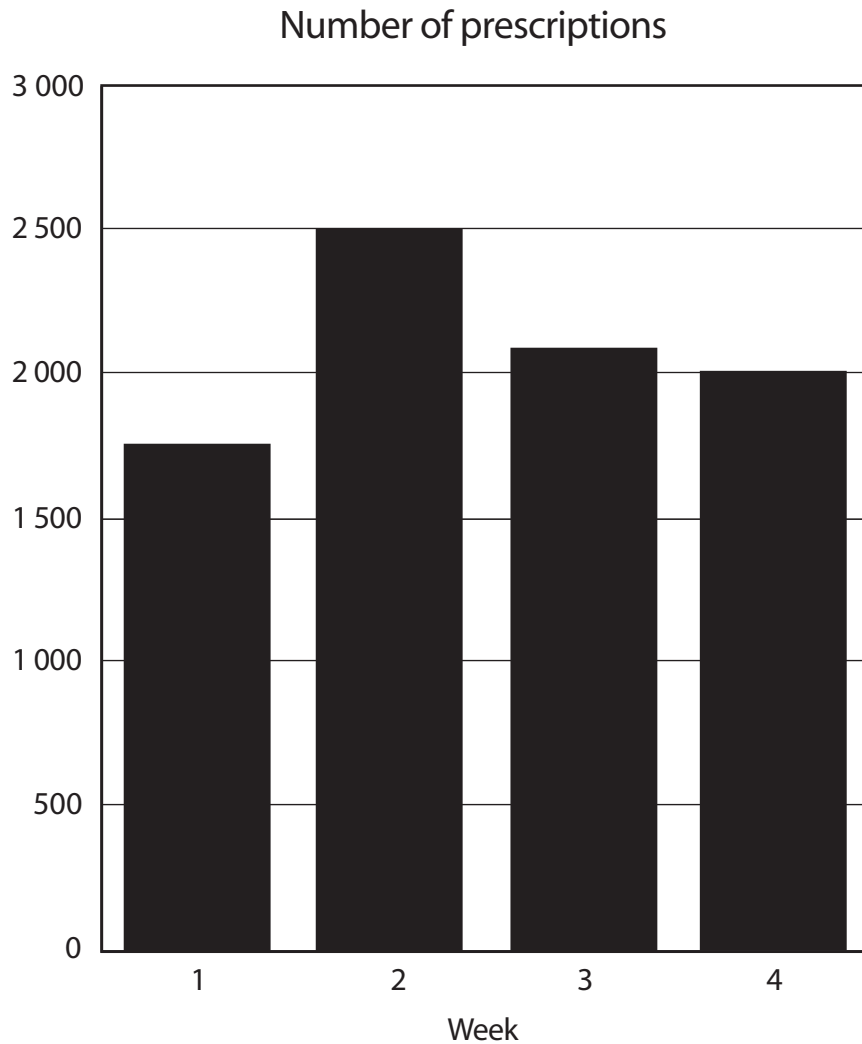


Scale: 2 centimetres = 1 metre

What is the length of the actual waiting area?

- A 2.4 metres
- B 6.0 metres
- C 12.0 metres
- D 24.0 metres

**25** The chart shows the number of prescriptions issued in one month.



What is missing from the chart?

- A** a title
- B** a label on the horizontal axis
- C** a scale on the vertical axis
- D** a label on the vertical axis


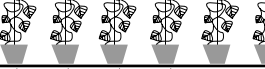
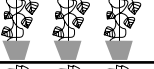
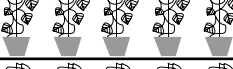



Questions 26 to 33 are about a garden centre.



26 They sell twenty-four thousand, two hundred and sixty-three trays of bedding plants over a three-month period.

What is this in figures?

- A 24 263
- B 240 263
- C 242 063
- D 2 400 263

27 The garden centre keeps a record of the number of shrubs sold in one week.

Day	Shrubs sold
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

 = 10 shrubs       = 5 shrubs

What is the total number of shrubs sold on Saturday and Sunday?

- A 75
- B 85
- C 160
- D 170

28 A customer buys the items shown in the table below.

Customer purchases		
Item	Price each	Number customer buys
Rose bush	£7.99	2
Plant pots	£2.50 for pack of 10	4 packs

Which calculation shows a correct method for working out the total cost?

- A  $(7.99 \times 1) + (2.50 \times 4)$
- B  $(7.99 \times 2) + (2.50 \times 4)$
- C  $(7.99 \times 1) + (2.50 \times 10)$
- D  $(7.99 \times 2) + (2.50 \times 10)$

29 In autumn, the garden centre has a sale.

**Autumn Sale**  
**15% off all**  
**large conifers**

A large conifer normally costs £28.00

What is 15% of £28.00?

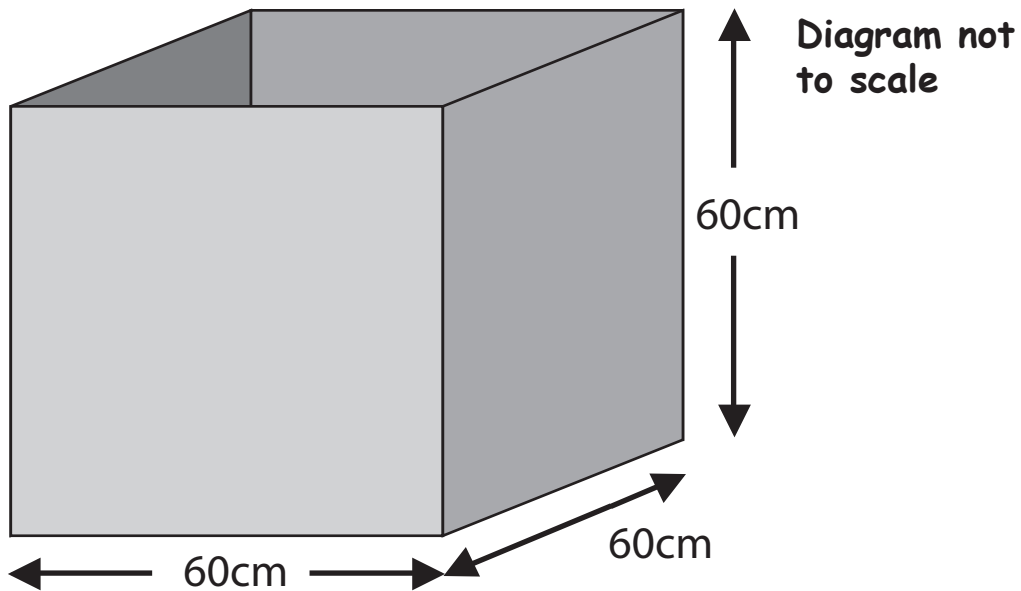
- A £1.40
- B £1.50
- C £2.80
- D £4.20

**30** An employee makes up a compost by mixing 3 parts peat with 1 part sand.  
He mixes 24 kilograms of this compost.

How much peat does he need?

- A** 6 kilograms
- B** 8 kilograms
- C** 18 kilograms
- D** 24 kilograms

31 He uses the compost to fill a planter.



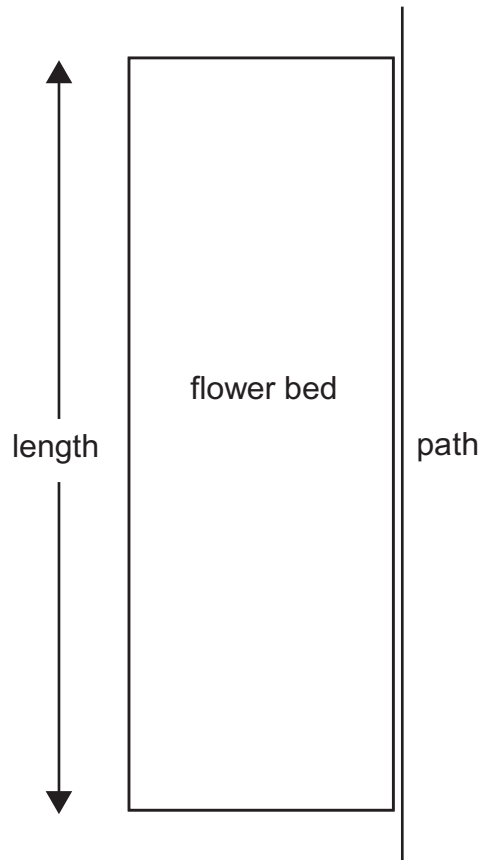
The diagram shows the planter.

What is the volume of the planter?

- A  $180\text{cm}^3$
- B  $3\,600\text{cm}^3$
- C  $7\,200\text{cm}^3$
- D  $216\,000\text{cm}^3$

**Please go on to the next page**

**32** The scale diagram below shows a flower bed at the side of a path at the garden centre.

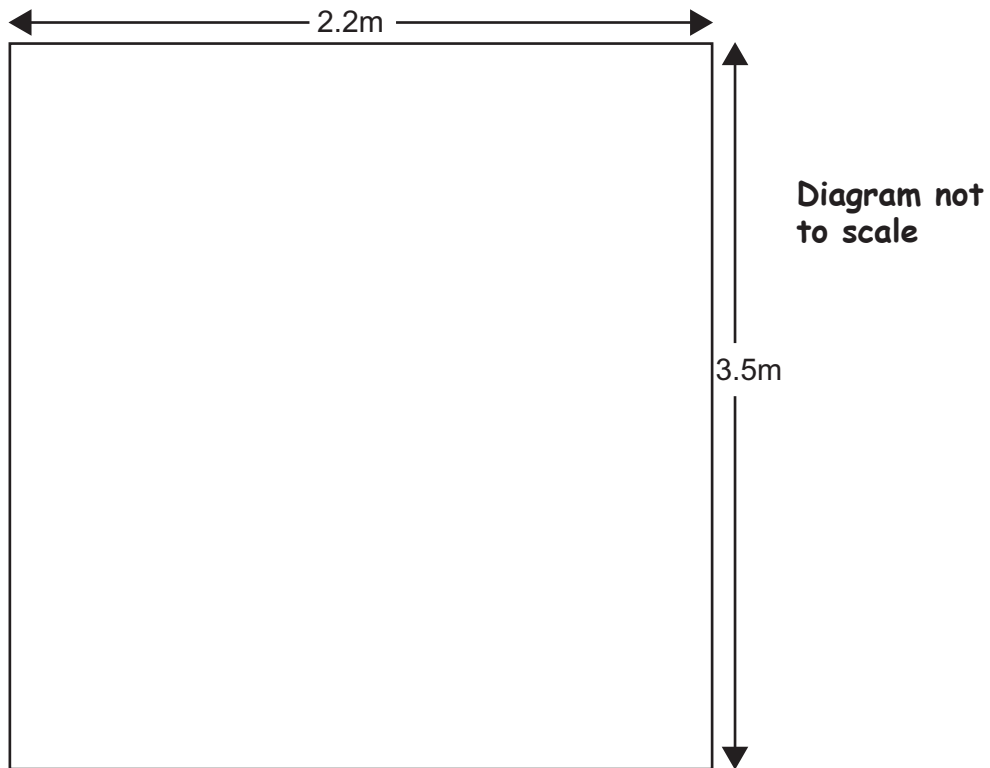


Scale: 1 centimetre represents 0.5 metre

What is the length of the actual flower bed?

- A 2.0m
- B 5.0m
- C 10.0m
- D 50.0m

**33** The diagram shows a rectangular plant bed.

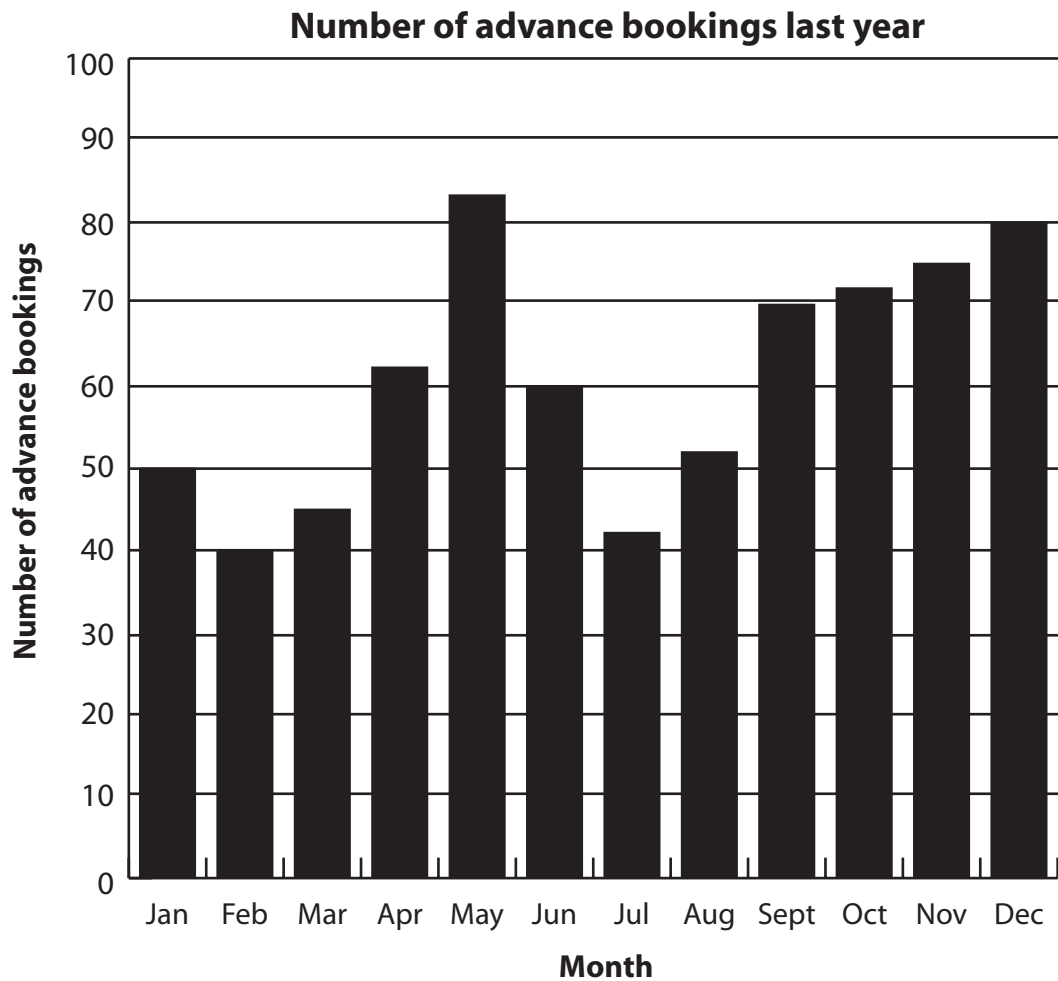


What is the area of this plant bed?

- A  $4.84\text{m}^2$
- B  $5.7\text{m}^2$
- C  $7.7\text{m}^2$
- D  $11.4\text{m}^2$

Questions 34 to 40 are about a restaurant.

34 The chart shows the number of advance bookings for each month last year.



What can you tell from the chart?

- A Bookings rose from March to May
- B Bookings rose between May and July
- C Bookings were the same in February and July
- D Bookings in May were exactly twice those in February

**35** The table shows the number of advanced bookings in one week.

Day	Number of advanced bookings
Monday	14
Tuesday	15
Wednesday	14
Thursday	12
Friday	16
Saturday	20
Sunday	21

What was the range of the number of advanced bookings this week?

- A 7
- B 9
- C 14
- D 16

**36** Three-quarters of the advanced bookings are from people who have eaten at the restaurant before.

What is  $\frac{3}{4}$  as a percentage?

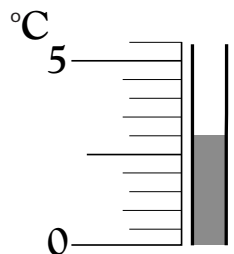
- A 25%
- B 34%
- C 70%
- D 75%

- 37** The chef weighs flour for a recipe.  
The diagram shows the reading on the scale.



What is this to the nearest gram?

- A 880 grams
  - B 883 grams
  - C 884 grams
  - D 890 grams
- 38** The chef checks the temperature on the thermometer in the refrigerator.



What temperature does the thermometer show?

- A 0.6°C
- B 3.0°C
- C 6.0°C
- D 7.0°C

**39** The restaurant employs six waitresses.

Each waitress receives a £25 bonus for working on a Bank Holiday.

In May, all the waitresses worked two Bank Holiday Mondays.

What was the total amount of money paid in bonuses to the waitresses for the Bank Holiday Mondays in May?

- A £50
- B £150
- C £175
- D £300

**40** The table shows the days in one week when members of staff are due to work in the restaurant.

	Sam	Robert	Emma	Kate	John	Susie	Claire	Dan
Mon	Working	Not working	Not working	Working	Working	Working	Not working	Working
Tues	Working	Not working	Working	Working	Working	Not working	Working	Working
Wed	Not working	Working	Working	Not working	Working	Not working	Working	Not working
Thurs	Working	Not working	Working	Not working	Not working	Working	Working	Working
Fri	Not working	Working	Working	Working	Not working	Working	Not working	Not working
Sat	Working	Working	Working	Not working	Working	Working	Not working	Working
Sun	Working	Working	Working	Working	Working	Working	Working	Not working

Working

Not working

Kate falls ill on Wednesday and cannot work for the rest of the week.

How many **more** days is she due to work this week?

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

**End of test**