

**Key skills application of number
Adult numeracy
Level 2**

Practice Test Paper J

YOU NEED

- This test paper
- An answer sheet

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

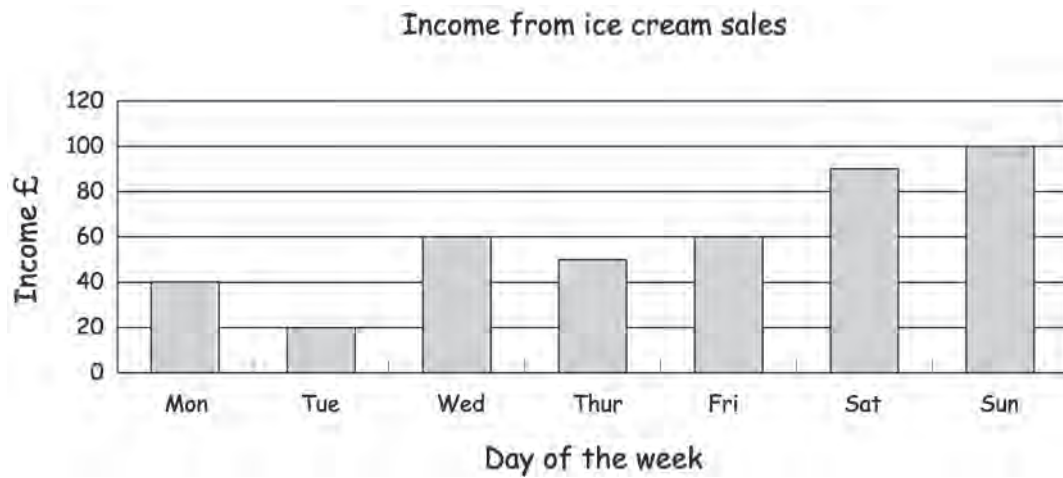
- Make sure your personal details are entered correctly on the answer sheet
- Read each question carefully
- Follow the instructions on how to complete the answer sheet
- At the end of the test hand in the question paper, your answer sheet and all notes to the supervisor

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

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.

Questions 1 to 3 are about ice cream sales.

This bar chart shows the income from ice cream sales for a typical week in May.



1 What is the total income from ice cream sales for the week?

- A £100
- B £220
- C £420
- D £700

2 Which of the following is true?

Daily income from ice cream sales was

- A highest at the weekend
- B highest mid-week
- C lowest at the weekend
- D higher on Sunday than on all of the weekdays put together

3 What is the range of the daily income from ice cream sales for a typical week in May?

- A £40
- B £60
- C £80
- D £100

Questions 4 to 9 are about lorry haulage.

The table shows the number of hours a driver works each day over 20 days.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	8 hrs	7 hrs	9 hrs	6 hrs	7 hrs
Week 2	9 hrs	7 hrs	7 hrs	7 hrs	6 hrs
Week 3	6 hrs	7 hrs	8 hrs	7 hrs	7 hrs
Week 4	9 hrs	8 hrs	7 hrs	7 hrs	6 hrs

4 What is the mode of the number of hours worked over the 20 days?

- A 6
- B 7
- C 7.25
- D 10

5 The driver is paid £17.50 per hour and £65 per day for expenses.

Which calculation shows how much he receives for Week 4?

- A $(5 \times £17.50) + (5 \times £65)$
- B $(37 \times £17.50) + £65$
- C $(£17.50 + £65) \times 37$
- D $(37 \times £17.50) + (5 \times £65)$

- 6 A sign on a road in Holland informs the driver that he is 32 kilometres from his destination.

He knows 1 mile is approximately 1.6 kilometres.

Using this approximation, how far is 32 kilometres in miles?

- A 2 miles
- B 3 miles
- C 20 miles
- D 51.2 miles

- 7 The lorry carries frozen produce at a temperature of -20.46°C .

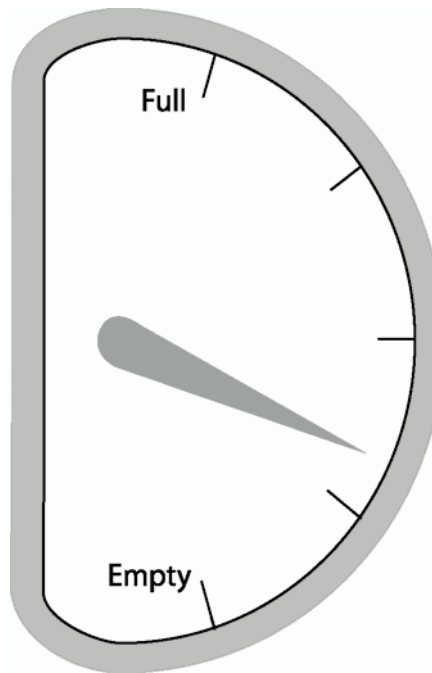
This changes during a journey to -15.02°C .

By how many degrees does the temperature **change**?

- A -5.26°C
- B -5.44°C
- C $+5.26^{\circ}\text{C}$
- D $+5.44^{\circ}\text{C}$

- 8 The reserve tank on the lorry holds 12 gallons.

This diagram shows the reading on the gauge for the reserve tank.



How much fuel is **left** to the nearest gallon?

- A 3 gallons
 - B 4 gallons
 - C 5 gallons
 - D 6 gallons
- 9 A litre of diesel costs 80.6p.
- The driver spends £60 on diesel.
- The best estimate for the amount of fuel bought is
- A 6 litres
 - B 7.4 litres
 - C 60 litres
 - D 74 litres

Questions 10 to 13 are about a boy going on holiday to France.

10 The boy wants to take the equivalent of £50 for pocket money.

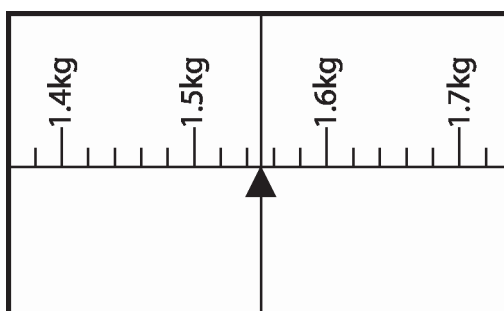
The exchange rate is 1.60 euros to the pound.

How many euros should he buy?

- A 31.25
- B 48.40
- C 51.60
- D 80.00

11 In France the boy buys some chocolates.

The diagram shows the reading when the chocolates are placed on the scale.



What is the weight of the chocolates he buys, to the nearest 10 grams?

- A 1 500g
- B 1 520g
- C 1 530g
- D 1 550g

- 12 After the holiday the boy sends 4 films through the post to be developed and printed.

The table shows the charges.

	Charges
Developing	£1.49 per film
Printing (normal size)	£2.10 per film
Printing (enlarged size)	£2.80 per film
Postage and Packing for Total Order	£0.70

He wants three of the films printed normal size and the other one printed enlarged size.

To cover the **total** cost, he sends a cheque for

- A £15.06
- B £15.76
- C £16.46
- D £17.16

- 13 The length of a normal size print compared to the length of its enlargement is in the ratio 2 : 3.

The normal size print is 13cm long.

How long is the enlargement?

- A 18.15cm
- B 19.5cm
- C 26cm
- D 39cm

Questions 14 to 17 are about mobile phones.

A shop has two mobile phone offers.

	Price of Phone	Line Rental (per month)	Price of Car Kit
Model XRT	£29.50	£9.40	£18.40
Model XRE	£42.60	£8.50	Free

- 14 A person buys a Model XRE phone and pays for 10 months line rental in advance.

What is the total cost?

- A £51.10
B £85.00
C £123.50
D £127.60
- 15 A Model XRT phone plus a Car Kit costs £47.90.

The cost of insurance is £4.49 per month.

Another person buys this telephone.

The bill for the Model XRT telephone is £214.58 including Car Kit, insurance and line rental for twelve months.

Which calculation gives a check for his bill?

- A $£214.58 - 12 \times £4.49 - 12 \times £9.40 = £47.90$
B $£214.58 + 12 \times £4.49 - 12 \times £9.40 = £47.90$
C $£214.58 - 12 \times £4.49 + 12 \times £9.40 = £47.90$
D $£214.58 + 12 \times £4.49 + 12 \times £9.40 = £47.90$

16 Telephone call costs are calculated by the second.

A one minute telephone call costs 10p

What is the cost of a 100-second call to the nearest penny?

- A 15p
- B 17p
- C 18p
- D 20p

17 A phone owner writes down how long he spends on telephone calls over a period of time.

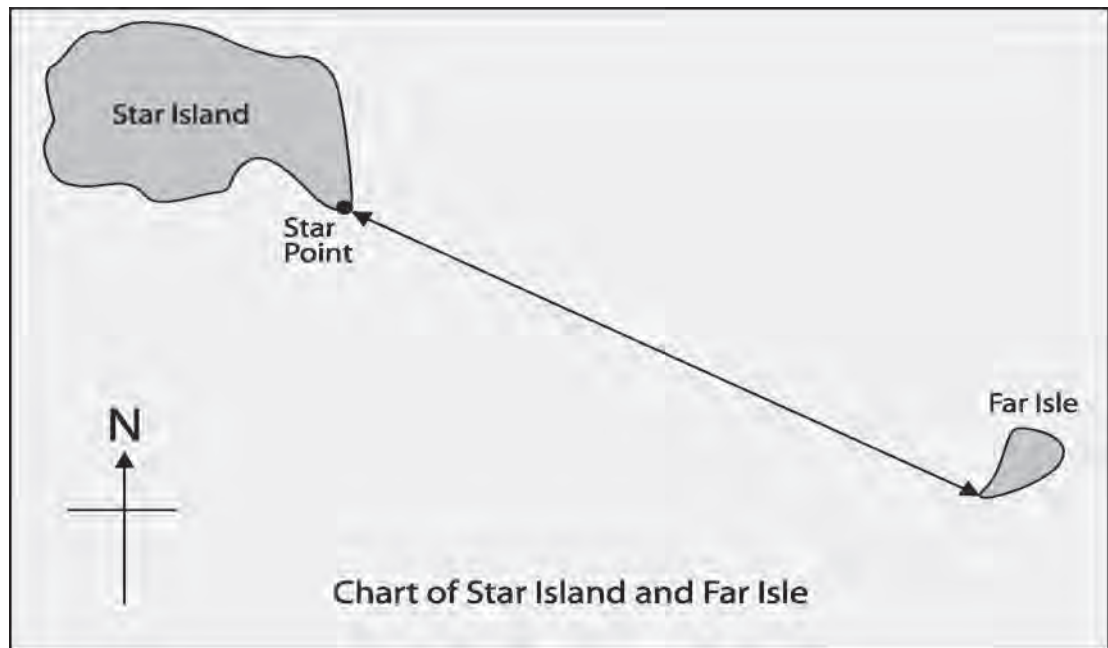
Length of calls (minutes)	8, 5, 6, 9, 4, 3, 7, 8, 8, 10, 6, 4, 7, 3, 2, 9, 9, 4, 6, 2
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What is the mean length of his telephone calls?

- A 4 minutes
- B 6 minutes
- C 8 minutes
- D 20 minutes

Questions 18 to 20 are about a boat trip.

18 A sailor plans a boat trip from Star Point to Far Isle.



4cm on the chart represents 1km.

To the nearest kilometre, the distance from Star Point to Far Isle is

- A 2km
 - B 3km
 - C 21km
 - D 33km
- 19 The cost in pounds of hiring a motor boat is calculated using this formula.

$\text{Cost in } \pounds = \pounds 3 \times \text{time in hours for which it is hired} + \pounds 5 \text{ basic charge.}$

The cost of hiring the motor boat from 8:30am to 4:00pm is

- A £18.50
- B £26.90
- C £27.50
- D £30.50

20 The diagram shows the boat's fuel tank.

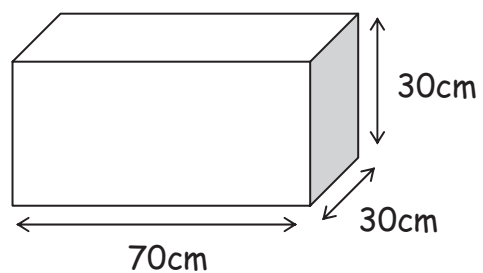


Diagram not to scale

How many litres does the tank hold when it is full?

(1 litre = 1 000cm³)

- A 1.3 litres
- B 6.3 litres
- C 63 litres
- D 130 litres

Questions 21 and 22 are about Council Tax.

This table shows the Council Tax due for properties of given ranges of values.

Valuation Band	Value of Property	Council Tax
A	Up to £40 000	£441.54
B	Over £40 000 and up to £52 000	£515.13
C	Over £52 000 and up to £68 000	£588.72
D	Over £68 000 and up to £88 000	£622.31
E	Over £88 000 and up to £120 000	£809.49
F	Over £120 000 and up to £160 000	£956.67
G	Over £160 000 and up to £320 000	£1 103.85
H	Over £320 000	£1 342.62

21 A person living alone in a property pays 75% of the Council Tax.

A house is valued at £110 000.

One person lives alone in the house.

How much Council Tax must she pay?

- A about £467
- B about £607
- C about £659
- D about £719

22 Next year Council Tax will increase by 4.5%

Which calculation gives the Council Tax due next year for a house in Valuation Band D?

A $£622.31 \times \frac{4.5}{100}$

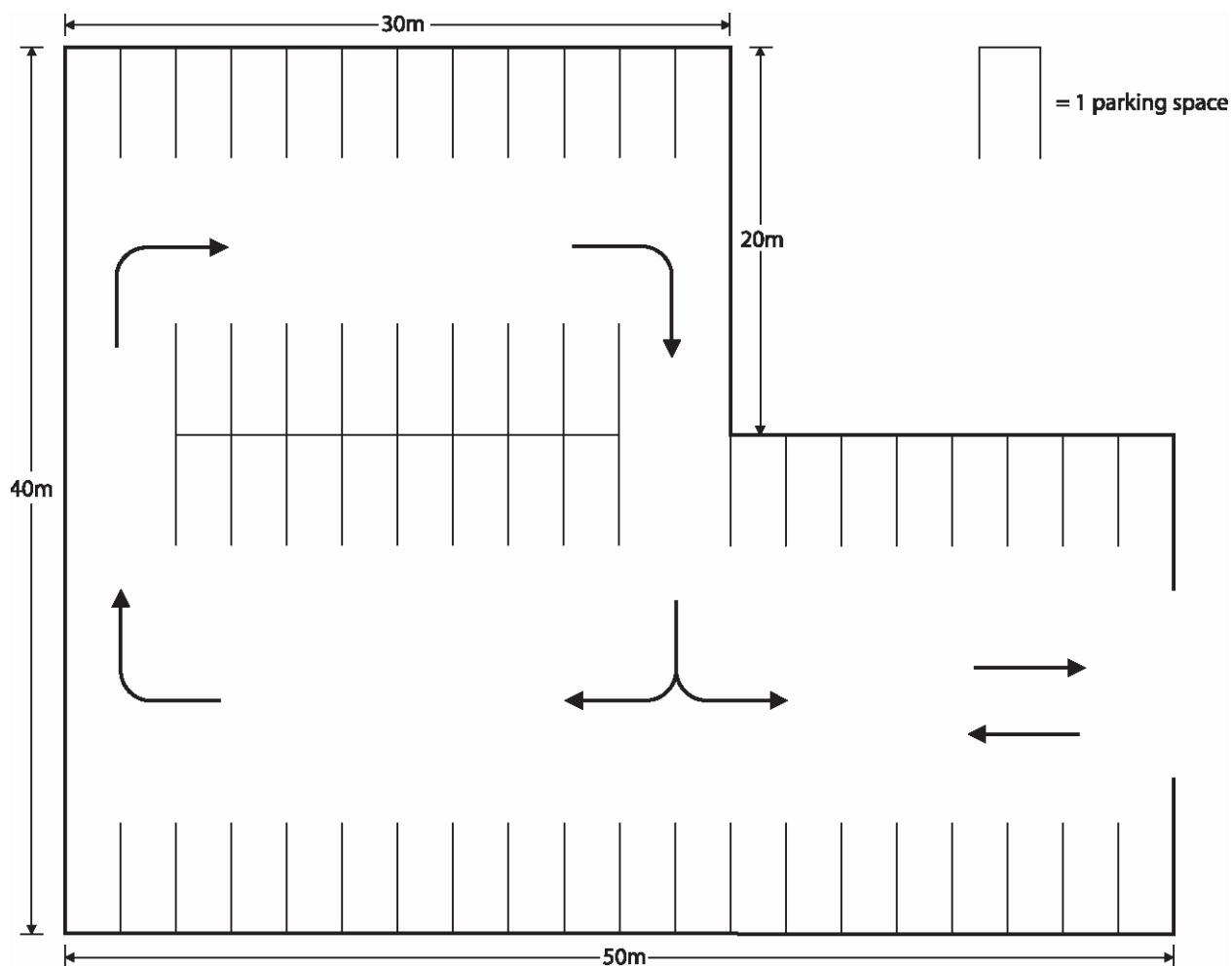
B $£622.31 + \frac{4.5}{100}$

C $£622.31 + £622.31 \times \frac{4.5}{100}$

D $£622.31 \times £622.31 \times \frac{4.5}{100}$

Questions 23 and 24 are about a car park.

The diagram shows a plan for a car park.



23 What is the area of the car park?

- A 1 200m²
- B 1 400m²
- C 1 600m²
- D 1 800m²

24 There are 6 parking spaces reserved for disabled drivers.

12% of the **remaining** spaces are reserved for visitors.

How many other parking spaces are there in the car park?

A 38

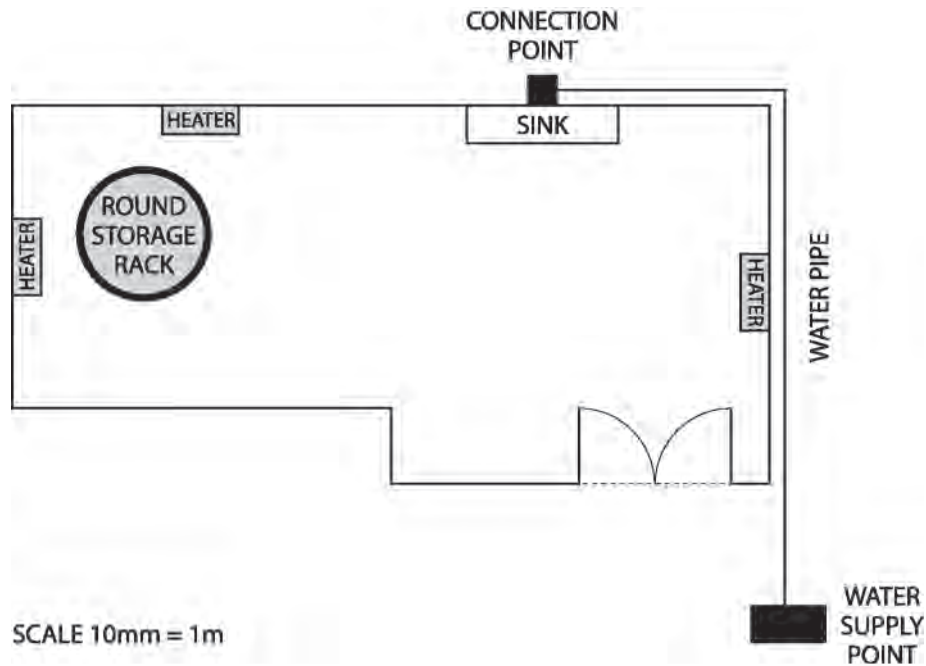
B 44

C 45

D 50

Questions 25 to 29 are about a storeroom.

The diagram is a scale plan of a storeroom.



- 25 A plumber fits a water pipe along the outside of the storeroom from the supply point to the connection point.

The length of the water pipe is

- A 8.3m
 - B 9.8m
 - C 83m
 - D 98m
- 26 The total area of the storeroom is

- A 4.5m^2
- B 5m^2
- C 45m^2
- D 50m^2

- 27 The round storage rack in the storeroom is 1.8m in diameter.

**Approximate area of a circle = $3r^2$
where r is the radius.**

The floor area covered by the storage rack is approximately

- A** 2.43m²
B 2.70m²
C 3.24m²
D 9.72m²
- 28 The storeroom heaters are switched on for 10 hours per day.
The heaters use a total of 7.2 units of electricity every hour.
Electricity costs 5p per unit.
The cost of heating the storeroom each day is
- A** £1.44
B £3.60
C £14.40
D £36.00
- 29 A storekeeper works 8 hours a day.
He spends 3 hours each day checking stock levels.
What is 3 hours as a percentage of his day's work?

- A** 25%
B 30%
C 37.5%
D 40%

30 The table gives the temperatures on January 1st in four cities:

	Belfast	Edinburgh	London	Cardiff
Temperature at midnight (°C)	2.3	-1.7	3.5	1.6
Temperature at 6am (°C)	-0.8	-4.2	0.9	-1.4

In which city was the temperature fall greatest between midnight and 6am?

- A Belfast
- B Cardiff
- C Edinburgh
- D London

Questions 31 to 34 are about a sports event.

Archery scores for 20 competitors are given below.

3 5 2 8 4
9 3 4 3 6
8 4 9 6 10
7 7 6 4 8

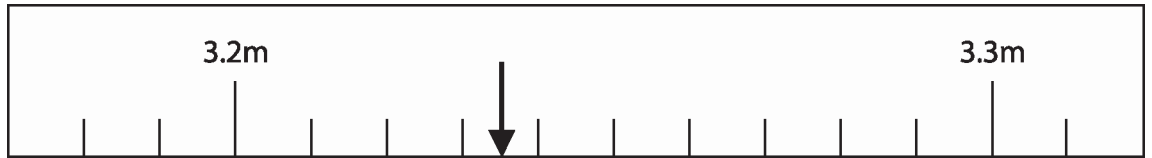
31 The percentage of competitors scoring 7 or more is

- A 8%
- B 10%
- C 40%
- D 50%

32 The range of the scores is

- A 5
- B 6
- C 8
- D 12

- 33 In the long jump, the distance each competitor jumps is measured to decide who wins.
The diagram shows part of the tape measure.
The arrow shows how far the runner-up jumped.



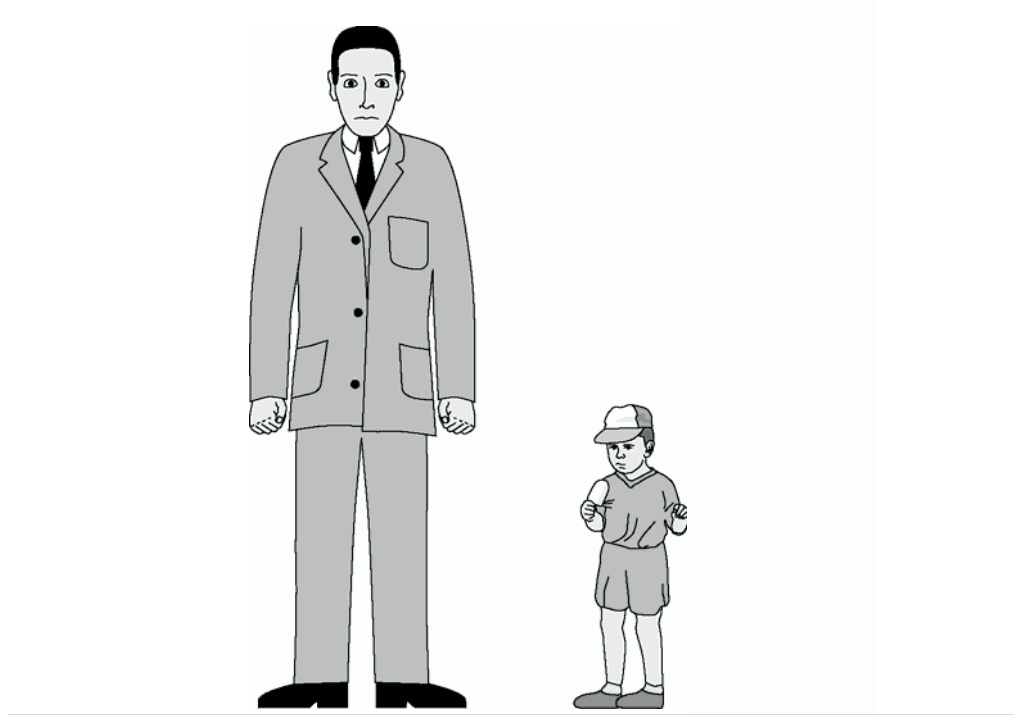
The winner jumped 7cm further.

Which is the best estimate of the length that the winner jumped?

- A 3.165m
B 3.235m
C 3.275m
D 3.305m
- 34 There were 7 competitors in the long jump.
Each jumped once.
The mean length of their jumps is 3.075 metres.
Which of the following **must** be true?
- A Half of the competitors jumped further than 3.075m
B Most people jumped further than 3.075m
C Everyone jumped further than 3.075m
D The total distance jumped was 21.525m

Questions 35 and 36 are about heights.

- 35 A man is trying to work out how tall he was when he was four years old. He has a picture of himself when he was four, standing next to his father. His father was 1.81m tall when the picture was taken.



- What is the estimated height of the man when he was four years old?
- A 70cm
B 80cm
C 90cm
D 95cm
- 36 A girl is 5 feet 6 inches tall.
1 foot = 12 inches and 1 inch = 2.54 centimetres.
Which of these calculations gives the girl's height in centimetres?
- A $(5 \times 12 + 6) \div 2.54$
B $5 \times 12 + 6 \times 2.54$
C $5 \times 12 + 6 \div 2.54$
D $(5 \times 12 + 6) \times 2.54$

- 37 A fishing rod consists of three sections.
The length of the rod in section 1 is 1334 millimetres.
Section 2 is 150 millimetres longer than section 1.
Section 3 is 200 millimetres longer than section 2.

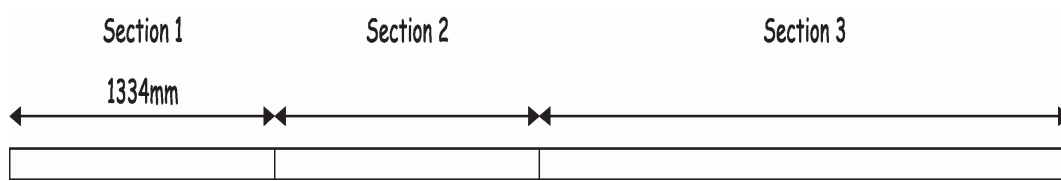
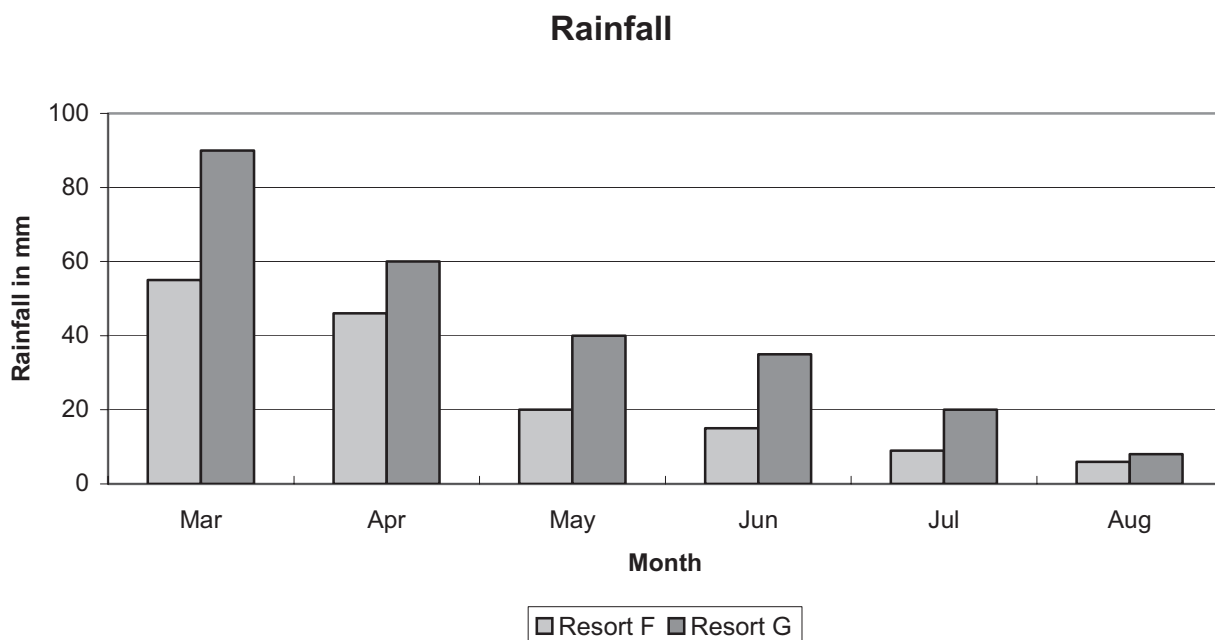


Diagram not
to scale

What is the total length of the fishing rod?

- A 1484mm
- B 1684mm
- C 4352mm
- D 4502mm

- 38 The graph shows the monthly rainfall in millimetres in Resort F and Resort G over a six month period.



Which statement best describes the information given by the graph?

- A G is drier than F each month.
- B F has most rain in June but it is always drier than G.
- C G has a bigger difference between the wettest and driest months than F.
- D F has more rain than G overall.

Questions 39 and 40 are about a house.

The diagram shows the ground floor plan of a house.

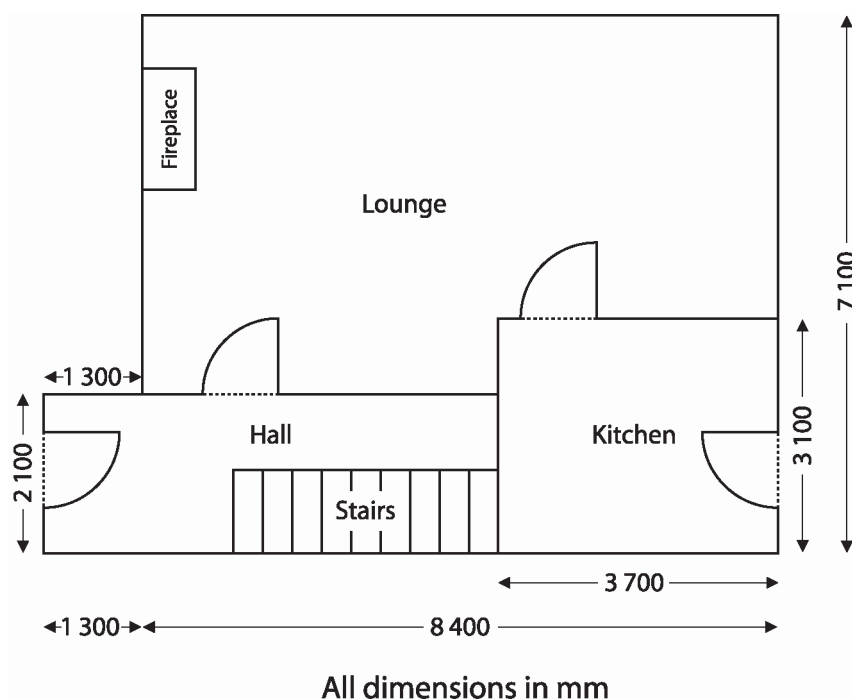


Diagram not to scale

39 What is the length of the lounge wall with the fireplace?

- A 2.1m
- B 4.0m
- C 5.0m
- D 8.4m

40 Which of the pie charts gives the most accurate representation of the floor areas?

Chart 1

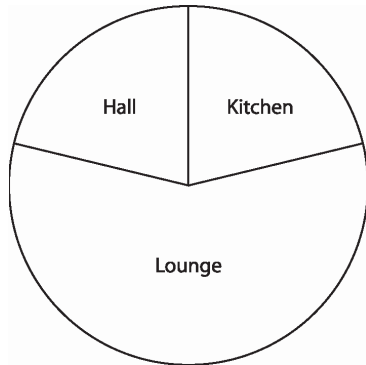
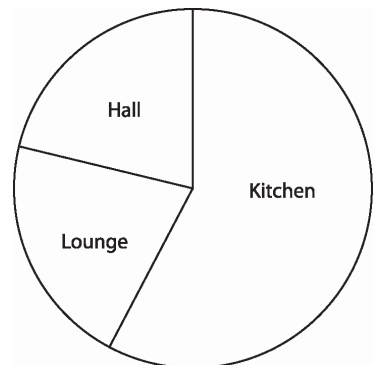
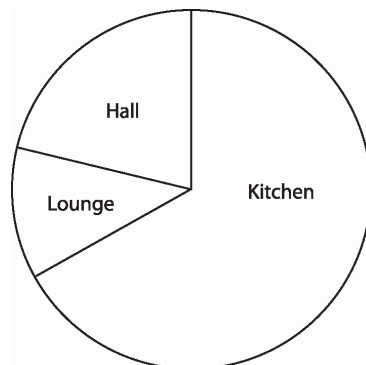
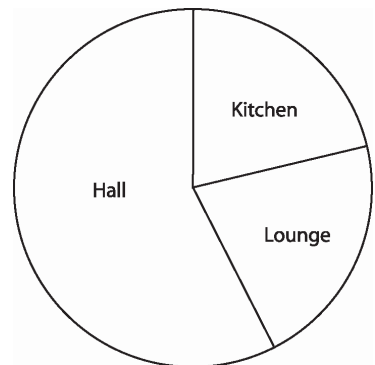


Chart 2



- A** Chart 1
- B** Chart 2
- C** Chart 3
- D** Chart 4

End of test