

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

Practice Test Paper K

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 unemployment

The table shows the percentage of students unemployed one year after leaving college.

Subject	Number of Students studying subject	Percentage unemployed one year after leaving college
Engineering	2812	2.2%
Physics	2047	4.1%
Chemistry	3090	4.7%
Sociology	3028	12.7%
Theatre Studies	2560	20.0%

- 1 2560 students studied 'Theatre Studies'.

How many of these students were unemployed one year after leaving college?

- A 46
- B 51
- C 512
- D 2 048

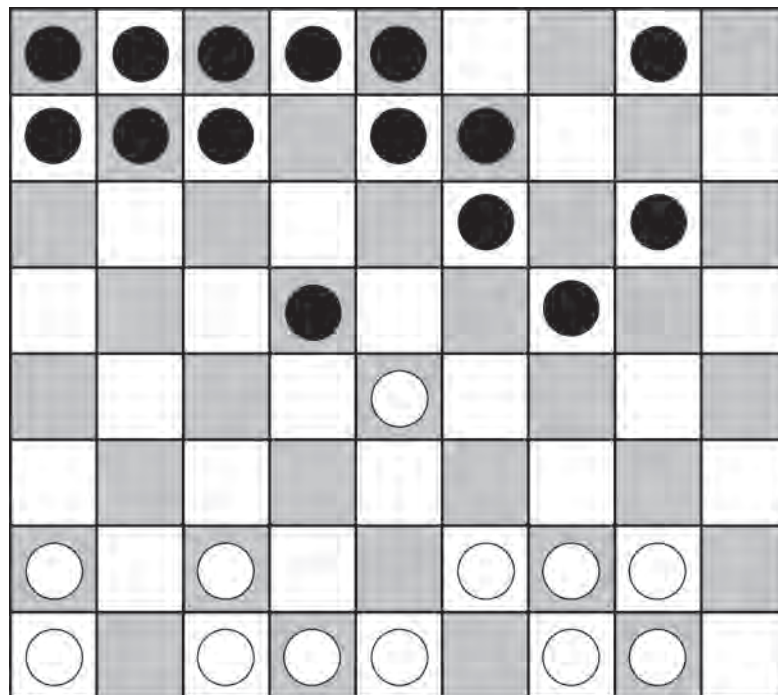
- 2 How many students studied Chemistry? Round your answer to the nearest hundred.

- A 3 000
- B 3 010
- C 3 090
- D 3 100

- 3 What percentage of Engineering students were **in employment** one year after leaving college?

- A 97.8%
- B 98.2%
- C 98.8%
- D 102.2%

4 The diagram shows pieces on a playing board.



● represents black pieces

○ represents white pieces

What is the ratio of black pieces to white pieces on the board?

- A 4 : 9
- B 5 : 9
- C 4 : 5
- D 5 : 4

Questions 5 and 6 are about a miniature steam train.

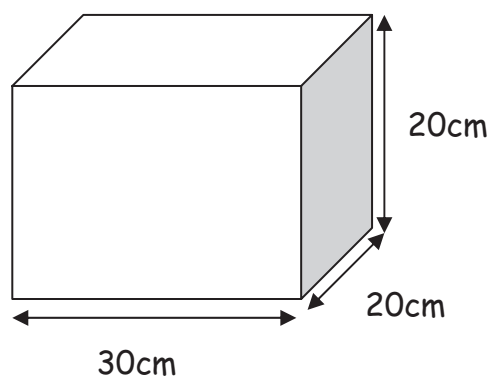
5 A ride on a miniature steam train costs 70 pence.

The train has 48 passengers.

How much money does the driver collect?

- A £29.60
- B £32.80
- C £33.40
- D £33.60

6 The diagram shows the water tank on a steam engine.



What is the volume of the tank?

- A 70cm^3
- B 400cm^3
- C 600cm^3
- D $12\,000\text{cm}^3$

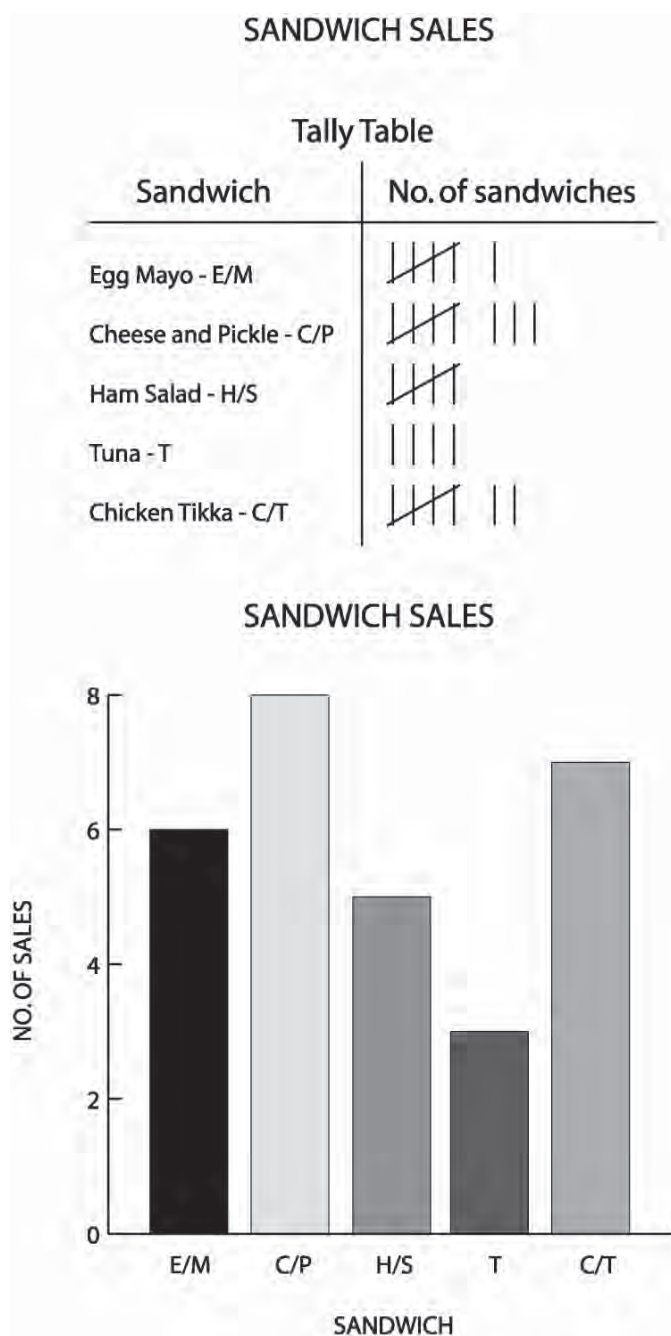
- 7 A weatherman records daily temperatures at a weather station. These are his results for one week in April.

Temperatures at 1pm each day	
DAY	Temperature in °C
Monday	14
Tuesday	15
Wednesday	15
Thursday	19
Friday	13
Saturday	12
Sunday	10

What is the average (mean) daily temperature for the week?

- A 14°C
- B 15°C
- C 96°C
- D 98°C

8 The tally table and bar chart show sandwich sales.



The tally table is correct.

Which bar is the **wrong** height?

- A Cheese and Pickle
- B Ham Salad
- C Tuna
- D Chicken Tikka

- 9 This pack of 5 videotapes costs £8.50.



How much is this for each tape?

- A £0.85
 - B £1.30
 - C £1.50
 - D £1.70
- 10 A man uses a videotape to record a film.

The film starts at 1950 and finishes at 2205.

How long is the film?

- A 2 hours 15 minutes
- B 2 hours 45 minutes
- C 2 hours 55 minutes
- D 3 hours 15 minutes

Questions 11 and 12 are about going on holiday to Turkey.

A family is going on holiday to Turkey.

- 11 There are one million six thousand nine hundred and seventy Turkish Lira to the pound.

Written in figures this is

- A 169 700
- B 1 000 697
- C 1 006 970
- D 1 697 000

- 12 The distance from an airport to a city hotel is measured in

- A hours
- B degrees
- C kilometres
- D kilograms

Questions 13 and 14 are about a ferry.

Two sisters drive from Birmingham to Dover to catch a ferry.

Ferry times from Dover - afternoon	1:30	2:00	2:30	3:00	3:30	4:00
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- 13 They leave Birmingham at 8:45am. The journey to Dover takes 6 hours and 25 minutes.

Which is the earliest ferry they can catch?

- A 2:30pm
- B 3:00pm
- C 3:30pm
- D 4:00pm

14 The table shows the prices for travelling on a ferry.

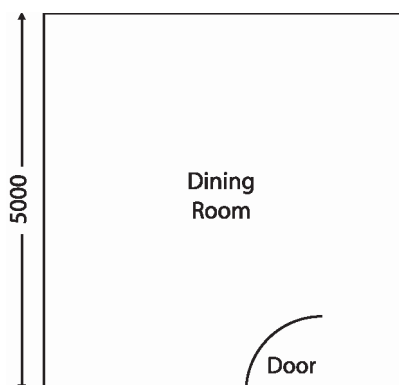
	Dates		
	1 Mar – 21 Mar 29 Sept – 13 Nov £	22 Mar – 12 Jul 21 Aug – 28 Sept £	13 Jul – 20 Aug £
Car + People (up to 9 people)	55	78	103
Adult on foot	15	21	24
Child 4-15 on foot	7	12	14

How much does it cost for a car with two people travelling on July 11?

- A £42
- B £78
- C £103
- D £120

Questions 15 to 17 are about home plans.

This plan shows a dining room drawn to scale.



15 The measurement on the plan shows the actual length of the dining room, but the units are missing. The length of the dining room is

- A 5 000mm
- B 5 000mm²
- C 5 000m
- D 5 000m²

16 The width of the dining room on the plan is:

- A 4.7cm
- B 5.3cm
- C 5.9cm
- D 7.0cm

17 A living room is 4.2m by 7.7m. The owners estimate the floor area.

Which of these is the **closest** estimate?

- A 28m²
- B 32m²
- C 35m²
- D 40m²

Questions 18 to 21 are about advertising and the media.

18 A newspaper sells 2 020 400 copies in one day.

The figure is written as

- A Two million two thousand and forty
- B Two million twenty thousand and four hundred
- C Two million two hundred and four thousand
- D Two million two thousand four hundred

19 A daily newspaper charges £30 000 for a black and white advert.
A colour advert costs 40% more.
How much extra is it for a colour advert?

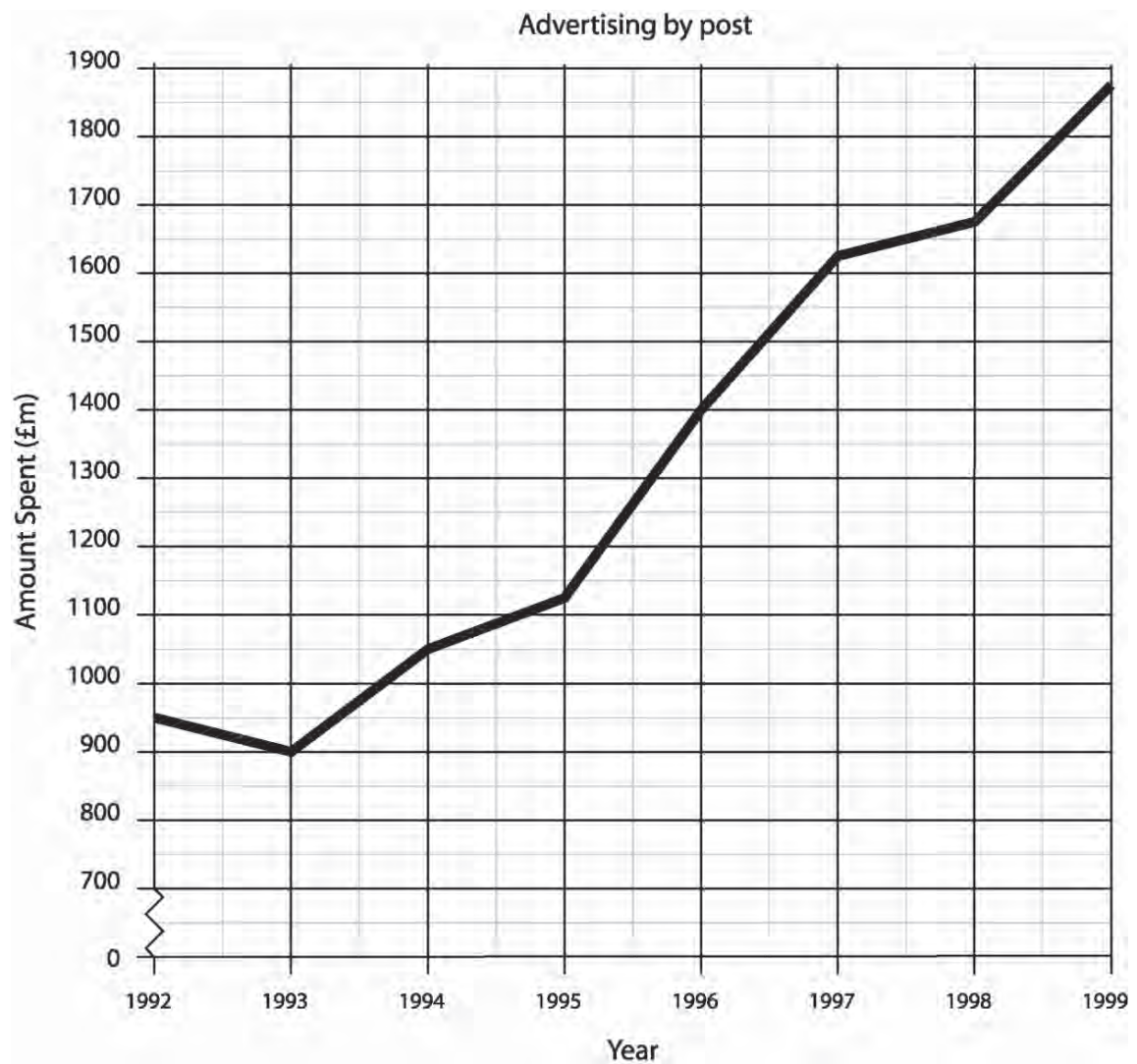
- A £750
- B £1 200
- C £4 000
- D £12 000

20 Advertising on television costs £766.67 per second.

What is this to the nearest pound per second?

- A £760 per second
- B £766 per second
- C £767 per second
- D £770 per second

- 21 The line graph shows the amount spent on advertising by post between 1992 and 1999.

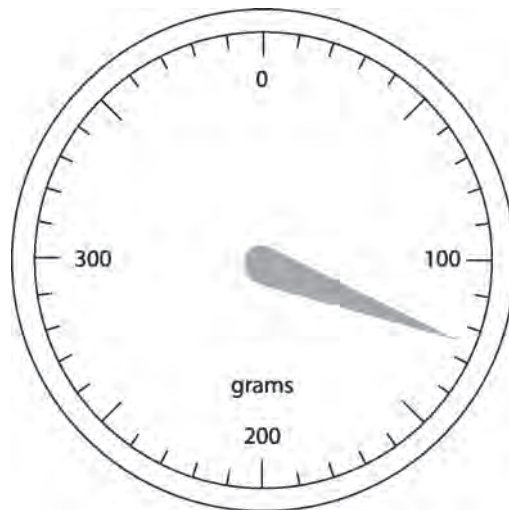


The amount spent in 1994 was about

- A £ 950 million
- B £1 010 million
- C £1 020 million
- D £1 050 million

Questions 22 to 25 are about baking.

22 A cook weighs some flour. The diagram shows the reading on the scale.



What is the reading on the scale?

- A 120 grams
- B 125 grams
- C 130 grams
- D 150 grams

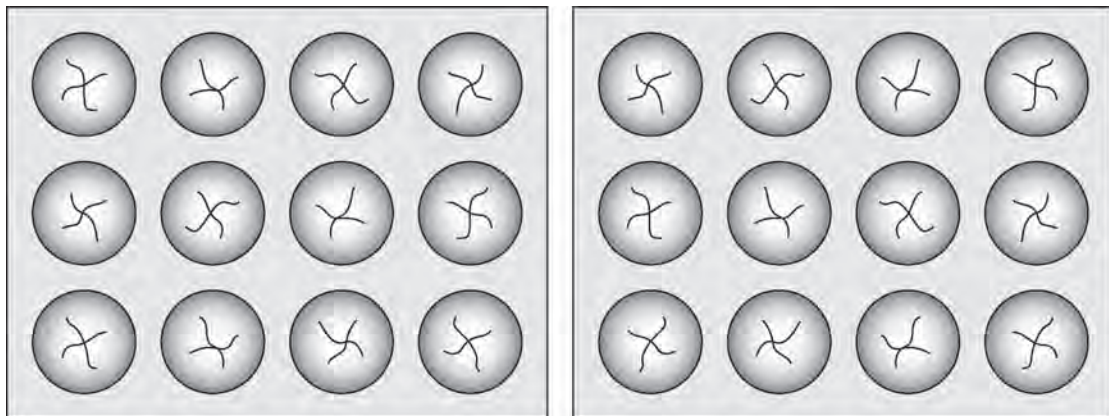
- 23 A recipe needs 200 grams of flour, 50 grams of butter and 50 grams of other ingredients.

What fraction of the total ingredients is butter?

- A $\frac{1}{6}$
B $\frac{1}{5}$
C $\frac{1}{4}$
D $\frac{1}{3}$

- 24 A cook bakes some buns. She fills two baking trays.

Baking Trays



Each bun needs 40 grams of bun mixture.

The weight of bun mixture she needs to fill two baking trays with buns is:

- A 80 grams
B 160 grams
C 480 grams
D 960 grams

- 25 The mean weight of biscuits in ten biscuit tins is two thousand and three point one grams.

This could be written as

- A 2 000.31g
- B 2 003.01g
- C 2 003.1g
- D 2 030.1g

Questions 26 to 28 are about going to a football match.

Two friends go to a football match.

- 26 They travel to London to watch their team play an away game.
They leave Stafford at 1046.
The journey takes 2 hours 31 minutes.

They arrive in London at

- A fifteen minutes past twelve
- B seventeen minutes past twelve
- C fifteen minutes past one
- D seventeen minutes past one

- 27 Football match tickets cost £28 each. A return train ticket costs £19 each. What is the total cost for the **two** friends?

- A £47
- B £66
- C £75
- D £94

28 There are 2 000 people supporting an away football team. Four fifths of these travel by train.

How many travel by train?

- A 500
- B 800
- C 1 200
- D 1 600

29 A student is saving up to go on holiday.
In the first seven weeks he saved these amounts:

£12 £9 £9 £10 £12 £8 £9

What is the range of the amounts saved?

- A £3
- B £4
- C £9
- D £12

30 At an airport a passenger puts his suitcase on the scales.

The diagram shows the reading on the scales.



What is the weight of the suitcase in kilograms?

- A 23kg
- B 26kg
- C 28kg
- D 32kg

31 A pilot says that the speed of an aircraft is 600 kilometres per hour. The flight time is 2 hours 30 minutes, and the distance is 1 500 kilometres.

Which of these calculations checks these figures?

- A $2 \times 60 + 30 = \text{time in hours}$
- B $1\,500 \div 2 = \text{time in hours}$
- C $600 \times 1\,500 = \text{time in hours}$
- D $1\,500 \div 600 = \text{time in hours}$

32 The table shows the distance between different towns.

	Barnstaple								
		Birmingham							
			Brighton						
				Cambridge					
					Cardiff				
						Carlisle			
							Dover		
180									
208	171								
100	90	120							
267	97	201	203						
372	199	375	257	300					
272	207	82	124	238	400				

Distances in miles

What is the distance from Birmingham to Carlisle?

- A 199 miles
- B 207 miles
- C 372 miles
- D 375 miles

33 A map has a scale of 1cm to 5km.
The distance from Carlisle to Longtown is 2.5cm on the map.

The actual distance is

- A 2km
- B 2.5km
- C 7.5km
- D 12.5km

34 A motorist's petrol tank holds 48 litres.

She buys 36 litres.

What fraction of a tank is this?

A $\frac{2}{3}$

B $\frac{3}{4}$

C $\frac{6}{7}$

D $\frac{7}{8}$

35 Petrol costs 80 pence per litre.

How much do 36 litres cost?

A £24.80

B £28.20

C £28.80

D £29.40

36 A motorist stops at a service station.

She buys a cheeseburger for £2.99, a cake for £1.15 and a drink for 75p.

How much change does she get from a £10 note?

A £4.89

B £5.11

C £5.89

D £6.11

- 37 A map has a scale of 1 cm to 2.5 km.
A walk from Alnwick to Seahouses is 15 km.

How far is the distance on the map?

- A 5.0cm
- B 6.0cm
- C 35.0cm
- D 37.5cm

- 38 The table shows the walking distances planned for a walking holiday.

DAY	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Distance (km)	8	11	9	14	4	5	5

What is the average (mean) walking distance per day?

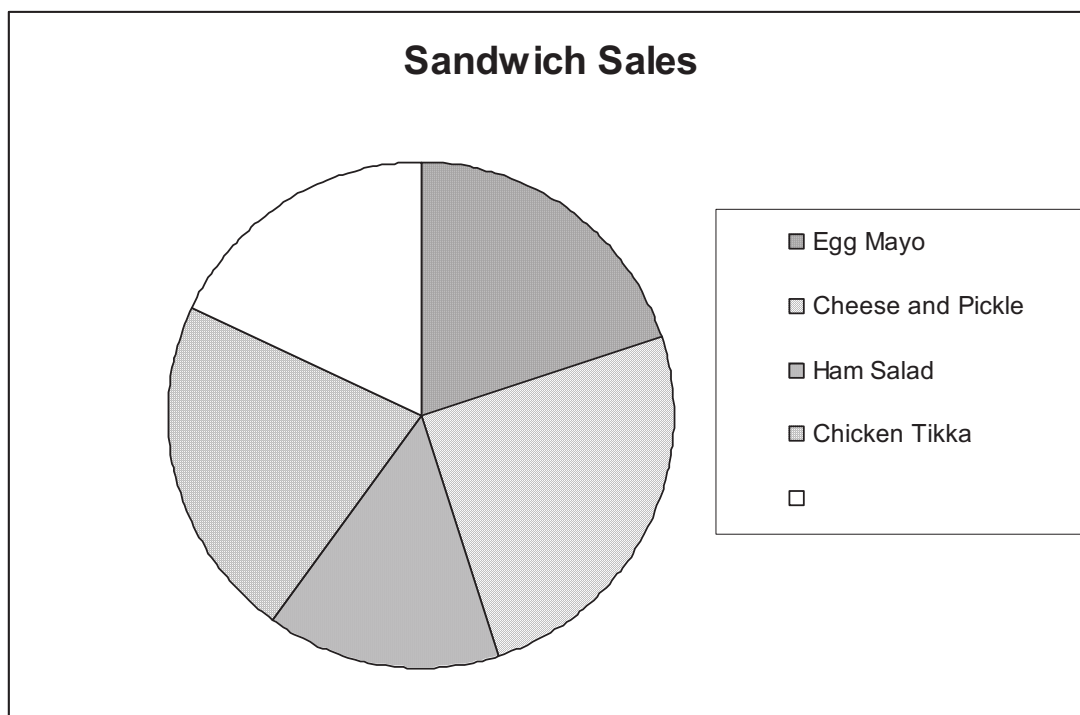
- A 4km
- B 5km
- C 8km
- D 14km

- 39 On Wednesday there were six hours of rain and eight hours of sunshine.

The ratio of hours of rain to hours of sunshine is

- A 3 : 4
- B 4 : 3
- C 3 : 7
- D 4 : 7

40 A shopkeeper produces a chart to show the sales of sandwiches.



What is **wrong** with his pie chart?

- A There is no key.
- B There is a sector missing.
- C A label is missing.
- D The title is missing.

End of test