

Kent Test 11+



Write your name

Surname	First name
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Paper 1 Set A

English and Mathematics

Time Allowed: 1 Hour	Start Time:	
	End Time:	

Instructions

- Calculators may NOT be used.
- You have 25 minutes for each paper with 10 mins for practice time.
- The questions in the English section are worth 25 marks.
- The questions in the Maths section are worth 25 marks.
- Attempt all the questions, writing your answers clearly.
- Leave any question you cannot answer and go on to the next one.
- Use any time you have left to check your answers and go back to any unanswered questions
- Circle your answers on the paper or on the answer sheets provided.

English Paper 1A

Read the passage carefully and answer the questions that follow.

- 1 Some say that the circus appeared for the first time in the 18th century, and if we look at the origins of the modern circus, they may be right.

The word 'circus' is of Latin origin and means 'circle' or 'ring'. The Romans built circular stadiums for their chariot races and these were called 'circuses'. Philip Astley founded the first modern circus in

- 5 London in about 1770. He gave horse displays accompanied by acrobats, musicians and a clown.

Astley found that his horses performed best in a circular place, so he enclosed his performance area with a ring. Astley called his show a riding school. A rival show set up by Charles Hughes in 1782, called the Royal Circus, was the first to use the word circus in the title. Following this, the idea of a circus performed in a ring spread to Europe and North America.

- 10 A Londoner, John Bill Rickets, set up the first circus in America. His circus followed the now-established pattern of using performing horses and riders, acrobats and a clown but was the first to travel from town to town. Horses were the mainstay of the early circus performance but gradually other animals were introduced. The animal trainer Isaac Van Amburgh was said to be the first man to put his head inside a lion's mouth.

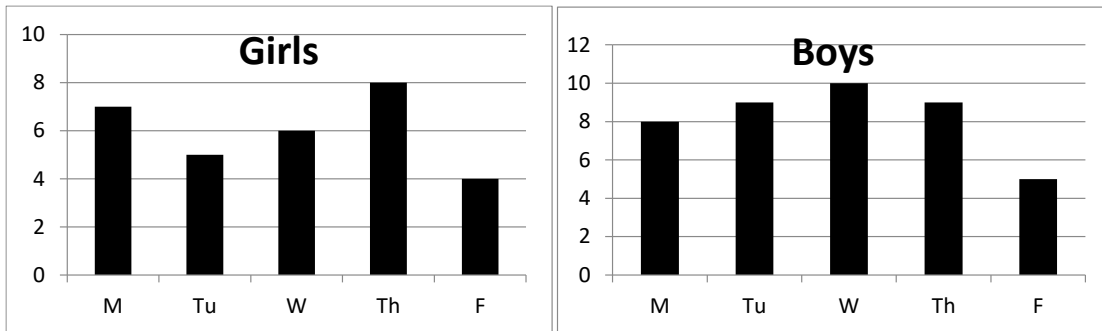
- 15 Among the first travelling circuses was that of Aaron Turner. In about 1830 it began performing outdoors under what may have been the first circus tent or 'big top'. Turner's tent was 28 metres across, providing space for a few hundred wooden seats, which could be dismantled and moved in a horse-drawn wagon. The circus was often presented in two tents, one for a variety of circus acts and a second reserved for the display of animals.

- 20 Travelling menageries were popular at about the same time. By 1870 the menagerie had become part of every circus. Special wagons were constructed for them. The giraffe, for example, required a tall, padded wagon in order to protect its neck during transportation. The hippopotamus had a large tank of water built inside its wagon.

- In 1871 P. T. Barnum formed a circus that was billed as 'The Greatest Show on Earth'. He
25 purchased 65 railway carriages and became the first to transport his equipment, performers and animals in his own railway train. Other American circuses soon followed this idea as it was much easier than using horse-drawn transport.

- Circuses, particularly contemporary ones, have significantly improved safety measures for performers and audiences. However, despite all precautions, accidents can still happen. They are
30 relatively rare compared to the number of performances that occur worldwide. These incidents, while tragic, also tend to receive more attention due to their rarity and the dramatic nature of circus performances.

- Q10** The two charts below show how many children did not submit their homework on time in class 5C. Which day of the week had the highest number of missed homework submissions in class 5C?



- A** Monday **B** Tuesday **C** Wednesday **D** Thursday **E** Friday
- Q11** Find the difference between 7.94 and 3.97.
- A** 4.97 **B** 3.93 **C** 3.97 **D** 4.03 **E** 3.87
- Q12** Simplify $2a + 5b - 3a + 2(2a - 3b)$
- A** $3a - b$ **B** $a - b$ **C** $-a - b$ **D** $3a + b$ **E** None of the answers
- Q13** Ali sits 3 maths tests. Each test has a maximum of 30 marks. He scored 18/30 on his first math test, a 15/30 on his second test, and 85% on his third test. What is his test average?
- A** 45% **B** 65% **C** 63% **D** 69% **E** 71%
- Q14** In January, the amount of snowfall on day one was 3.7cm, day two, 3.9cm, and day three, 4.7cm. How many more cm of snow is required to reach the average monthly snowfall of 12.6 cm?
- A** 4.1 cm **B** 0.3 cm **C** 8.5 cm **D** 0.4 cm **E** 20 cm
- Q15** If the speed of a plane is 44 metres per second, calculate the speed the plane in km per hour.
- A** 72 km/h **B** 158.4 km/h **C** 2.64 km/h **D** 300 km/h **E** None of the answers
- Q16** The cost of electricity is calculated using the formula $\text{£}55 + \text{Units} \times 30\text{p}$. If the bill for March is $\text{£}106$, how many units of electricity were used?
- A** 1.70 units **B** 17.0 units **C** 170 units **D** 1700 units **E** 17000 units
- Q17** In this question you may assume 1 British pound (GBP) = 1.2 Australian dollars (AUD)
If I fly to Australia and had AUD 360 to spend, how many British pounds would I have converted?
- A** 180 GBP **B** 250 GBP **C** 360 GBP **D** 300 GBP **E** 432 GBP
- Q18** A train from London to Manchester was supposed to leave at 09:30 and take two and a half hours. In fact, the train left 23 minutes late and arrived at Manchester at 1215. How many minutes did the journey from London to Manchester actually take?
- A** 142 mins **B** 150 mins **C** 165 mins **D** 188 mins **E** None of the answers

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Paper 2 Set B

Reasoning

Time Allowed: 1 Hour	Start Time:	
	End Time:	

Instructions

- Calculators may NOT be used.
- The questions in the VR section are worth 32 marks.
- The questions in the NVR/Spatial section are worth 28 marks.
- Each section is individually timed.
- You may not go back to a previous section.
- Attempt all the questions, writing your answers clearly.
- Leave any question you cannot answer and go on to the next one.
- Circle your answers on the paper or on the answer sheets provided.

Section 2: Non-Verbal Reasoning

You have 5 minutes to complete this subsection.

In the questions below, the three boxes on the left are shapes with code letters. The top letters have a different meaning to the bottom ones. Work out the letters that go with the shapes and then find the code for the new shape from the five codes on the right.

Eg

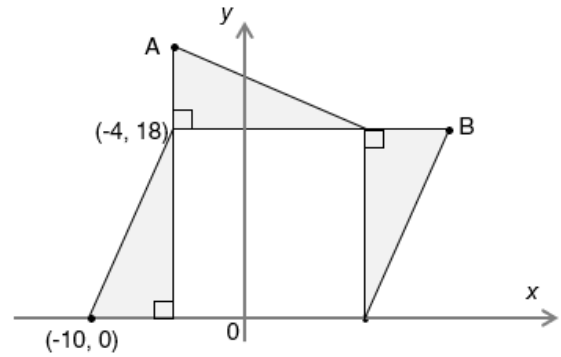
		A	B	A	A	B	A	B	R
		R	R	S	R	S	B	R	S
					A	B	C	D	E

Answer : B The letter at the top indicates the direction (B) of the shape and the letter at the bottom represents the shading (S).

		G	R	G	G	G	R	T	G
		T	T	B	B	T	B	B	R
Q1					A	B	C	D	E
		B	C	C	B	B	X	B	C
		X	D	X	X	C	D	D	X
Q2					A	B	C	D	E
		O	U	O	O	O	U	U	R
		R	X	X	X	U	R	X	X
Q3					A	B	C	D	E
		B	G	V	G	T	V	B	G
		X	T	T	X	T	X	T	V
Q4					A	B	C	D	E
		T	T	G	G	T	T	S	S
		S	R	R	S	R	G	R	T
Q5					A	B	C	D	E
		O	C	O	C	O	C	O	P
		P	P	G	P	P	G	C	G
Q6					A	B	C	D	E

Adam plots three identical right-angled triangles on a chart.

Answer the two questions below using the information shown.



Q21 What are the coordinates of point A?

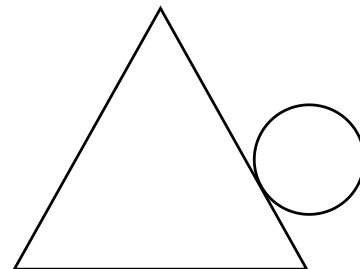
- A** (-4, 26) **B** (18, 18) **C** (-8, 18) **D** (-4, 24) **E** (-4, 22)

Q22 What are the coordinates of point B?

- A** (14, 18) **B** (18, 20) **C** (22, 18) **D** (20, 18) **E** (18, 18)

The diagram shows an equilateral triangle with sides of length 3 cm.

Q23 If the circumference of the circle shown is 1.5cm, then how many turns will it make around the triangle to its original starting position?



- A** 4.5 **B** 6 **C** 9 **D** 2 **E** 3

Q24 A path in the park is 2 metres wide and rectangular in shape. How long is the path if it covers an area of 46 square metres.

- A** 23 metres **B** 11.5 metres **C** 46 metres **D** 23 metres **E** 4.6 metres

Q25 The formula $2n^2 - 5n + 1$ is used to calculate each term of a sequence. The first 3 terms are -2, 5 and 18. What is the 8th term?

- A** 25 **B** 985 **C** 124 **D** 88 **E** 89

Reasoning Paper 2C

There are 3 sections in this test.

Section 1: Verbal Reasoning

You have 20 minutes to complete 32 questions.

Three of these four words are given in code.
The codes are not written in the same order as the words and one code is missing.

TALE RATE TEAL HARE
2453 1574 2534

Choose the correct answer to the questions below.

Q1 What is the code for RATE?

A 2453 B 1574 C 7524 D 3534 E 5342

Q2 What is the word for 1532

A LATE B TARE C TEAR D REAL E HALT

Q3 What is the code for HEALTH?

A 145321 B 215312 C 152321 D 71529 E 753247

Three of these four words are given in code.
The codes are not written in the same order as the words and one code is missing.

DOSE SANG SONG NAIL
1524 1324 9516

Choose the correct answer to the questions below.

Q4 What is the code for GANG?

A 9519 B 5245 C 2542 D 1231 E 4324

Q5 What is the word for 1234?

A GAIN B SOLD C LANE D SNAG E LONE

Q6 What is the word for 9526?

A AGES B DONE C DOES D GOAD E SANE

1A English - Comprehension

Q1	England – lines 4 & 5.	A
Q2	John Bill Rickets – line 10.	D
Q3	Horses – line 10.	C
Q4	Roman Chariot Races – lines 3 & 4.	A
Q5	A few hundred (seats) for people – line 17.	B
Q6	(Inference) Animals – line 21.	B
Q7	First to use train for transport – line 25.	E
Q8	Circuses spread from London to Europe.	C
Q9	Performed best in a circular place – line 6.	A
Q10	Centrepiece – main event.	B
Q11	Destiny is future, Origin is source.	D
Q12	Metaphor to describe something amazing.	B
Q13	Noun – describes people.	C

1A English – Spelling and Grammar

Q14	N – there are no mistakes	N
Q15	Baiterd – correct spelling Baited.	B
Q16	Elegence – correct spelling Elegance.	B
Q17	Delibarate – correct spelling Deliberate.	D
Q18	Banaeth – correct spelling Beneath.	A
Q19	Horizen – correct spelling Horizon.	A
Q20	Missing comma after However.	D
Q21	Incorrect capital 'There'.	A
Q22	N – there are no mistakes	N
Q23	Incorrect use of apostrophe 'Circuse's'	C
Q24	There should be their.	C
Q25	Fornns – should be form.	B

1A Maths

Q1	$\frac{2}{3}$. Correct order: 40%, 0.42, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$	D
Q2	$5 \times 60 = 300$ m per min $300 \times 60 = 18,000$ m per hour = 18km/h	C
Q3	$180^\circ - 90^\circ - 41^\circ = 49^\circ$	D
Q4	$360 \times 115/100 = 414$ kg	E
Q5	$300 / 60 = 5$ calories per minute $750 / 5 = 150$ mins = 2.5 hours	C
Q6	$625 \div 100 = 6.25$. All others are 0.625	D
Q7	$H = (8/2) \times 5 = 20$ (height = 4 x Depth)	A
Q8	15.01 is the closest at only 0.01 from 15	C
Q9	$5X + 10X + 20X = \pounds 175$ $35X = \pounds 175$, so $X = 5$. Cathy has $5 \times 3 = 15$ notes in total.	C
Q10	$75\% = (65+74+75+x) / 4$ $300 = 65+74+75+x$ $X = 86$	A
Q11	$1643.2 (x 100 \div 1000)$	C
Q12	$30 \times \pounds 1.50 = \pounds 45 + \pounds 10 = \pounds 55$ for 20 bars $30 \text{ bars} = 55/20 \times 30 = \pounds 82.50$	B
Q13	$D = 24 (A = 18, B = 20, C = 28)$	D
Q14	$2 \times (3/4 + 1/5) = 1.9$ hours $1.9 \times 60 = 114$ mins	C
Q15	(-3, -1) lies outside the perimeter.	E
Q16	$30 \times 150 = 4500$ g = 4.5kg per crate $4.5\text{kg} \times 15 \text{ crates} = 67.5$ kg	B
Q17	$50 \text{ cm} \times 100 \text{ cm} = 5000 \text{ cm}^2$	A
Q18	LCM of 5 and 7 is 35 $35 \div 5 = 7$ boxes	D
Q19	$12 \text{ cubes} = 768 \text{ cm}^3$ $768 \div 12 = 64 \text{ cm}^3$ Therefore length = 4 cm ($4 \times 4 \times 4 = 64$)	C
Q20	3 & 4 suitable for 4 yr old Only 3 is suitable for weight of 12 kg	C
Q21	38 months = 3 yr 2 months – seats 2 & 3 Weight 12 kg – seats 2 & 3 Height 95 cm – seats 2 & 3	A
Q22	$(300 / 75) \times 90 = 360$ pages per hour	A
Q23	Helen is paid $H \times \pounds x$ She keeps $2/3$, so $HX/3$	A
Q24	$5.6 + 7.35 + 12.4 + 8.75 = 34.1$	B
Q25	$4.25 \div \frac{1}{2} = 8.5$ cm	B

2A – Verbal Reasoning

Q1	mistakes <u>and</u> = sand	D
Q2	have <u>very</u> = ever (4 letter word)	C
Q3	visited <u>Italy</u> = edit	E
Q4	quite <u>modern</u> = item	E
Q5	<u>her</u> often = hero	C
Q6	<u>was</u> heavy = wash	B
Q7	Image and Optician - others relate to 'looking'	AD
Q8	Embark and venture - others relate to 'stop'	AE
Q9	Steal and Theft - others are people	BC
Q10	waive and relinquish - others relate to 'giving'	DE
Q11	erase and obliterate - others relate to 'gluing together'	BE
Q12	acquire and grasp - others related to being 'mislead'	CE
Q13	club' can mean 'a truncheon or bat' or 'a group of people organised together for a purpose'.	A
Q14	'notice' can mean 'a sign giving information' or 'to observe'.	C
Q15	'last' can mean 'something that happens after everything else' or 'to carry on for a period of time'.	D
Q16	'part' can mean 'to divide' or 'a section or a portion'.	C
Q17	'novel' can mean 'a fictional book' or 'something different from anything seen before'.	D
Q18	'break' can mean 'a brief respite or interval' or 'to become broken'.	D
Q19	failed grin – move A – filed grain	B
Q20	first pawn – move R – fist prawn	C
Q21	powder her – move D – power Herd	D
Q22	salve lied – move V – sale Lived	D
Q23	swamp sun – move P – swam spun	E
Q24	meteor pint – move O – meter point	D
Q25	$34 - 12 \times 2 = 10$	D
Q26	$36 \div 2 + 7 = 25$	E
Q27	$3 \times 8 \div 4 + 3 = 9$	E
Q28	$12 \times 3 \div 4 - 9 + 0 = 0$	D
Q29	$9 \times 5 - 12 - 13 = 20$	A
Q30	$15 \times -2 \div -6 + 3 = 2$	B
Q31	Wednesday.	C
Q32	A quarter of the fruits are apples (4/16).	D

2A – Non-Verbal Reasoning

Q1	Five sides and same direction of shading	D
Q2	Each figure is a symmetrical through the middle.	B
Q3	The sum of all the sides in each figure add up to 15.	D
Q4	(1) The smallest shape has one more side as compared to the largest shape and (2) shaded shape is identical to largest shape.	B
Q5	In each figure, the small shape (circles) on the two ends on the top have identical shading. The shape at the centre and the shape on the bottom right have identical shading. The shape on the bottom left has different shading.	B
Q6	In each figure, the two portions (diagonal reflection of each other) have identical shading and the other two have different shading.	C
Q7	There is a minimum of 3 different shapes and only 1 overlap between shapes.	C
Q8	The medium sized squares have a different outline compared to the other figures	D
Q9	In each figure, the shape on the top and one of the shapes at the bottom are reflections, except in E.	E
Q10	In each figure, the bar-bell line is on the side of the rotated square, except in C.	C
Q11	Shape A is the only one not symmetrical.	A
Q12	Only D has 4 small white triangles.	D
Q13	Only shape B has two white squares.	C
Q14	Only shape D has a black square.	D
Q15	2D to 3D shapes	D
Q16	2D to 3D shapes	A
Q17	2D to 3D shapes	E
Q18	2D to 3D shapes	D
Q19	2D to 3D shapes	E
Q20	2D to 3D shapes	B
Q21	2D to 3D shapes	C
Q22		C
Q23		D
Q24		E
Q25		C
Q26	Answer is not D due to shorter right line.	B
Q27		D
Q28		E

Mark your answer with a thin horizontal line.
Mark 2 letters if relevant to the question.

English - Comprehension

- Q1 [A] [B] [C] [D] [E]
 Q2 [A] [B] [C] [D] [E]
 Q3 [A] [B] [C] [D] [E]
 Q4 [A] [B] [C] [D] [E]
 Q5 [A] [B] [C] [D] [E]
 Q6 [A] [B] [C] [D] [E]
 Q7 [A] [B] [C] [D] [E]
 Q8 [A] [B] [C] [D] [E]
 Q9 [A] [B] [C] [D] [E]
 Q10 [A] [B] [C] [D] [E]
 Q11 [A] [B] [C] [D] [E]
 Q12 [A] [B] [C] [D] [E]
 Q13 [A] [B] [C] [D] [E]

English – Spelling and Grammar

- Q14 [A] [B] [C] [D] [N]
 Q15 [A] [B] [C] [D] [N]
 Q16 [A] [B] [C] [D] [N]
 Q17 [A] [B] [C] [D] [N]
 Q18 [A] [B] [C] [D] [N]
 Q19 [A] [B] [C] [D] [N]
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 Q22 [A] [B] [C] [D] [N]
 Q23 [A] [B] [C] [D] [N]
 Q24 [A] [B] [C] [D] [N]
 Q25 [A] [B] [C] [D] [N]

SCORES

ENGLISH				/ 25
MATHS				/ 25
VERBAL				/ 32
NON-VERBAL				/ 28

Maths

- Q1 [A] [B] [C] [D] [E]
 Q2 [A] [B] [C] [D] [E]
 Q3 [A] [B] [C] [D] [E]
 Q4 [A] [B] [C] [D] [E]
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Verbal Reasoning

- Q1 [A] [B] [C] [D] [E]
- Q2 [A] [B] [C] [D] [E]
- Q3 [A] [B] [C] [D] [E]
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- Q25 [A] [B] [C] [D] [E]
- Q26 [A] [B] [C] [D] [E]
- Q27 [A] [B] [C] [D] [E]
- Q28 [A] [B] [C] [D] [E]
- Q29 [A] [B] [C] [D] [E]
- Q30 [A] [B] [C] [D] [E]
- Q31 [A] [B] [C] [D] [E]
- Q32 [A] [B] [C] [D] [E]

Non-Verbal Reasoning

- Q1 [A] [B] [C] [D] [E]
- Q2 [A] [B] [C] [D] [E]
- Q3 [A] [B] [C] [D] [E]
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- Q26 [A] [B] [C] [D] [E]
- Q27 [A] [B] [C] [D] [E]
- Q28 [A] [B] [C] [D] [E]