

Do not turn over or open this booklet until told to do so

CEA

Common Entrance Assessment

Paper 3

Saturday 30 November 2019

Time: 1 Hour

Please fill in the following from your admission card:

Your Candidate Number _____

Your Assessment Centre _____

Your Date of Birth _____

Answer all 58 questions in this booklet

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IN BY THE PUPIL

MATHEMATICS

Page	Marks	Score	Check
1	(4)		
2	(4)		
6	(2)		
7	(3)		
8	(3)		
11	(5)		
12	(3)		
16	(3)		
17	(2)		
18	(3)		
TOTAL 32			

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IN BY THE PUPIL

ENGLISH

Page	Marks	Score	Check
3	(2)		
4	(6)		
5	(2)		
9	(1)		
10	(4)		
13	(2)		
14	(5)		
15	(2)		
19	(1)		
20	(4)		
21	(3)		
TOTAL 32			
TOTAL SCORE			

1. What number should be added to 76 to get a total of 383? Write your answer in the space below.

2. Convert 202 minutes into hours and minutes. Write your answer in the spaces below.

_____ hours and _____ minutes

3. What is the best estimate for 43×56 ? Tick the correct answer below.

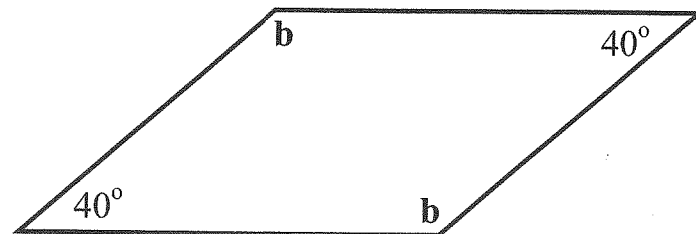
40 x 50

40 x 60

50 x 50

50 x 60

4. Look at the parallelogram below.



What is the size of angle **b**? Write your answer, in degrees, in the space below.

b = _____ °

5. A 3-D shape has 4 faces, 4 vertices and 6 edges. What is the name of this 3-D shape? Tick the correct answer below.

Triangular prism

Triangular-based pyramid

Square-based pyramid

Cuboid

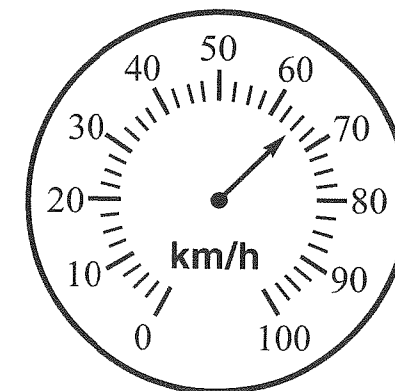
6. Here are the scores of Cayla's last five tests:

8 9 8 5 10

What is her mean (average) score? Write your answer in the space below.

7. Look again at Cayla's scores in Q6. She sits another test. The mean (average) score is now 7.5 for her 6 tests. What is her score in the 6th test? Write your answer in the space below.

8. Sean is driving his car in Donegal. The speed of his car, in kilometres per hour, is shown on the scale below. Write the speed of Sean's car in the space below.



_____ km/h

15. The **proper adjective**, **African** is used in the poem. It comes from the **proper noun**, **Africa**. Write the **proper adjective** which comes from each of the **proper nouns** below in the space provided. The first one has been done for you. **Be careful with your spelling.**

Proper Noun	Proper Adjective
Russia	Russian
America	_____
India	_____
China	_____
Canada	_____

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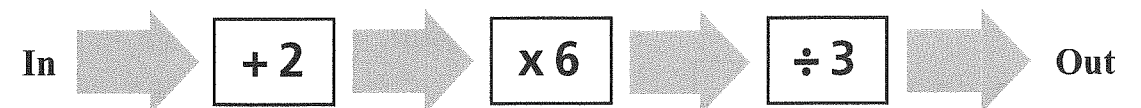
16. On 31 January 2019, the midday **temperatures** in five cities in the USA are shown in the table below.

City	Temperature (°C)
Anchorage	-5
Chicago	-21
Minneapolis	-24
Detroit	-18
Pittsburgh	-12

- (a) Which **city** is **3 degrees warmer** than **Chicago**? Write your answer in the space below.
- _____
- (b) What is the **difference** in temperature between **Anchorage** and **Pittsburgh**? Write your answer in the space below.

_____ °C

17. Look at the function machine below.

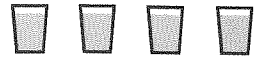

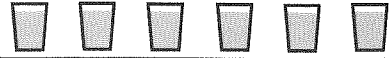



Use this function machine to complete the table below.

In	Out
4	12
	6
1.5	

Do not write in this column


18. The pictogram below shows the **number of drinks** of Water, Orange juice and Cola sold during one hour at the school fair.

Type of drink	Number of drinks sold
Water	
Orange juice	
Cola	
Lemonade	

Key:  = 12 drinks

- (a) **How many more** drinks of **Cola** were sold than drinks of **Orange juice**? Write your answer in the space below.

_____ drinks

- (b) There were **96 Lemonade drinks** sold. **How many**  symbols would be needed to show this on this pictogram? Write your answer in the space below.

_____ symbols

19. Look at the **mathematical statements** below. Tick each statement below **true** or **false**.

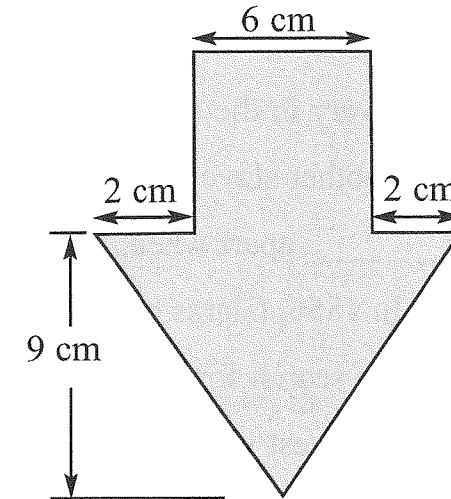
	True	False
$4 \times 2 = 2 + 2 + 2 + 2$	<input type="checkbox"/>	<input type="checkbox"/>
$3.5 \times 3 = 3 + 3 + 3 + 0.5$	<input type="checkbox"/>	<input type="checkbox"/>

20. It takes **175 ml** of water to make **one glass** of orange squash. **How many litres** of water does it take to make **19 glasses** of orange squash? Write your answer in the space below.

_____ litres

Do not write in this column

21. Look at the shape below. It is made up of a **square** and an **isosceles triangle**. Calculate the **area** of the shape. Write your answer in the space below.



_____ cm²

22. The advert below shows the **rental costs** for a cottage.

Weekly price: **£600**
 5 nights: **75% of the Weekly price**
Please note: All rentals require an additional fee of £5.99

What is the **total cost** of **renting** a cottage for **5 nights**? Write your answer in the space below.

£ _____

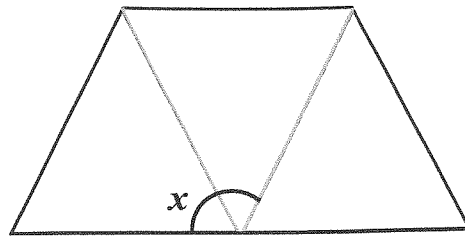
23. Part of the calendar for **June 2020** is shown below.

June 2020						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13

Which **day** of the week will the **8th July** be in **2020**? Write your answer in the space below.

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29. Three **equilateral** triangles are placed together as shown below.



What is the size of the **obtuse angle x** ? Write your answer, in **degrees**, in the space below.

$x =$ _____ °

30. The **first triangular** number is **1**. **Multiply** together the **4th** and **5th** **triangular numbers**. Write your answer in the space below.

31. Calculate the **value** of 7^3 and write your answer in the space below.

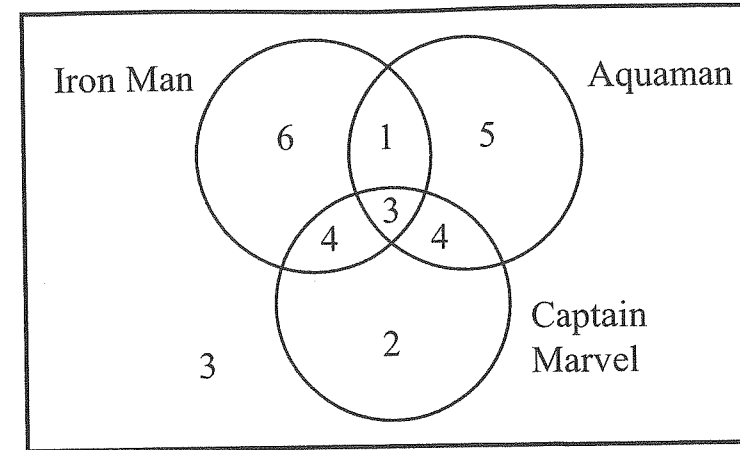
32. Rebecca faces **North-East**. She turns **anti-clockwise** through **405°**. In which direction is Rebecca **now facing**? Tick the correct answer below.

North East
 North-West South-East

33. What is the **sum** of **5 tenths** and **8 hundredths**? Write your answer, as a **decimal**, in the space below.

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34. Mr McAuley asks all the pupils in his class about the superhero characters they like. Their answers are shown in the Venn Diagram below.



- (a) How many pupils **don't like** Captain Marvel? Write your answer in the space below.
- _____ pupils
- (b) Which superhero character did **most pupils like**? Write your answer in the space below.

35. A ceiling fan rotates through **9 complete turns** before it is switched off. **How many degrees** does the ceiling fan rotate through **in total** before it is switched off? Write your answer, in **degrees**, in the space below.

_____ °

36. Ella and Joanne each pick a number. The **sum** of their numbers is **143**. **Ella** picked the number **79**. What is the **difference** between the **two numbers** that Ella and Joanne picked? Write your answer in the space below.

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Journey to the Peninsula

High on the hill the stone structure of Stormont stands, a bland Lego-block building, so straight with sharp edges against the natural curves of clouds and leaf and land.

Journeying onward, with a glance up to the right there's the fairy-tale tower, like Rapunzel's, in green forest groves, nearly hidden from sight.

The roads are more serpentine, weaving and wild. Alongside stand reeds erect, swooping seabirds and water lapping to the peninsula's pebbly shores, undefiled.

Riding the roller coaster roads on this finger of land across to the ferry port, where, lining the shore front, picturesque harbour homes and the aquarium stand.

A short sea-faring finale upon the tide, over the straits, with the heavy humming motor noises and swaying movement to the Strangford side.

37. Which **word** in **verse one** is similar in meaning to **colourless**? Write the **best** answer in the space below.

38. Which **adjective** in **verse three** is similar in meaning to **upright**? Write the **best** answer in the space below.

Do not write in this column

39. In **verse three** the poet describes the **roads** as **serpentine**. Tick the statement below which **best** explains what the poet means by this.

The roads are cracked and weather-worn.

The roads are narrow and difficult to drive.

The roads are congested during rush hour.

The roads are winding, with lots of bends.

40. Based on your reading of **verse four**, tick each of the statements below **true** or **false**.

True **False**

The houses are by the sea.

The houses are unattractive.

The location has an aquarium.

41. Based on your reading of **verse five**, how does the poet complete the **final part** of the journey? Tick the **correct** answer below.

By roller coaster.

By boat.

By car.

By foot.

42. A **homophone** is a word which sounds the same as another word but has a different meaning. The word *tale* is used in **verse two** of the poem. It is often mistaken for its **homophone** *tail*. **Circle the correct word** in each pair of **homophones** in the sentences below.

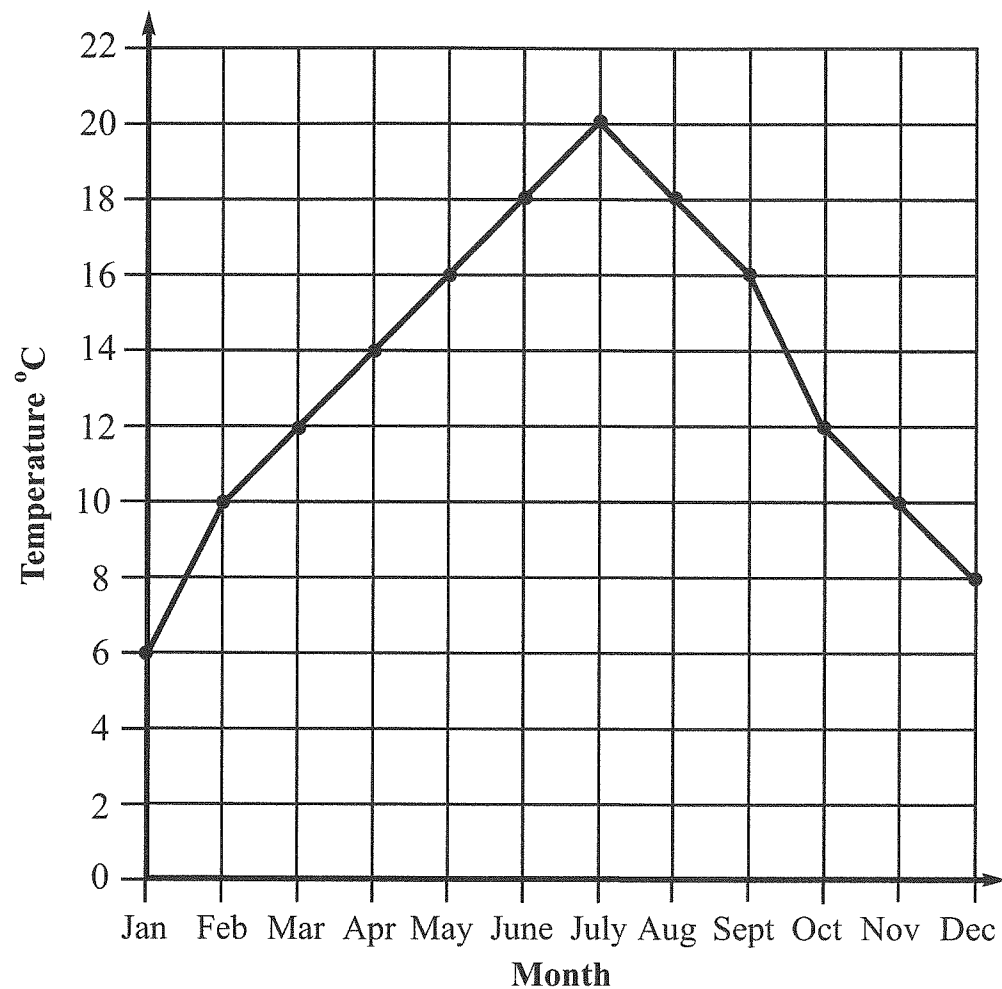
The Ards Peninsula is a section of land which juts out into the Irish Sea and Strangford Lough Lock. There are many cites sights to see on the Ards Peninsula including Greyabbey and Castle Espie. Different roots routes can be taken when travelling around this region.

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47. One angle in a right-angled triangle is 68° . Calculate the size of the other acute angle in this triangle. Write your answer, in degrees, in the space below.

_____°

48. For an experiment, Amy recorded the average monthly temperature of soil throughout the year. She plotted her results on the graph below.



- (a) Which month recorded an average temperature of 8°C ? Write your answer in the space below.

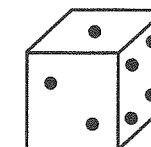
- (b) Between which two consecutive months was the increase in average temperature greatest? Write your answers in the spaces below.

_____ and _____

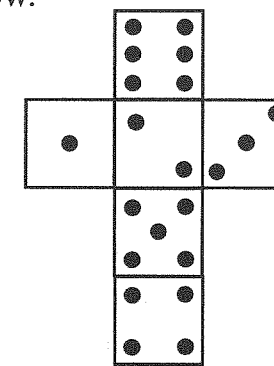
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49. David bakes a cake. He gives $\frac{1}{2}$ of the cake to Linda and $\frac{3}{8}$ of the cake to Laura. What fraction of the cake is left for David? Write your answer, as a fraction, in the space below.

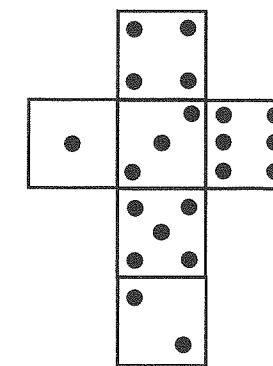
50. Dots are painted on each face of a cube.



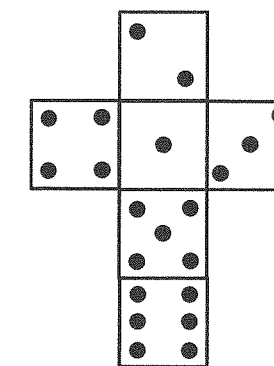
The number of dots on opposite faces of the cube add up to 7. Which of the following is a net of the cube? Write your answer in the space below.



Net A



Net B



Net C

Net _____

51. Here is part of a train timetable for five trains from Leeds to Liverpool.

	Train A	Train B	Train C	Train D	Train E
Leeds	08:00	08:15	08:30	08:45	09:00
Liverpool	09:40	09:50	10:05	10:50	10:55

- (a) Paul has to attend a meeting in Liverpool. He needs to arrive in Liverpool before 10:00. What is the latest train he can catch from Leeds? Write your answer in the space below.

Train _____

- (b) Which train takes more than 2 hours to go from Leeds to Liverpool? Write your answer in the space below.

Train _____

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57. Based on your reading of **paragraph four**, why has Morag **disappeared**? Tick the **best** answer below.

Morag has gone to look for her father.

Morag's father makes her work too hard.

Morag has gone to meet her school friends.

Morag has gone to look for lost animals.

58. The words **spent**, **began**, **knew** and **forbade** are used in the passage. Write the **present tense** of each of these words in the space provided below. **Be careful with your spelling.**

spent _____

began _____

knew _____

forbade _____

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