

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of 10 printed pages and 2 blank pages.



1	Write 30 000 000 in words.	
		[1]
2	Write down the temperature which is $5 ^{\circ}$ C below $-2 ^{\circ}$ C.	
		°C [1]
3	Write \$0.70 as a fraction of \$5.60, giving your answer in its lo	west terms.
		[1]
4	Write 0.040 1907 correct to	
	(a) 3 significant figures,	
		[1]
	(b) 3 decimal places.	
		[1]

5 In triangle *ABC*, AB = 7 cm, BC = 4 cm and AC = 6 cm.

Using a ruler and compasses only, construct triangle *ABC*. The side *BC* has been drawn for you.



[2]

6 Write the following in order of size, smallest first.



8 Work out $\frac{2}{3} - \frac{1}{4}$, giving your answer as a fraction in its lowest terms. Do not use a calculator and show all the steps of your working.

.....[2]

9 A circular pool has radius 8 m.

Calculate the circumference of the pool.

..... m [2]

10 $\frac{2}{9}$ of an amount is 48.

Calculate the original amount.

																 	[2]
11								E	LE	РH	AN	Т					
	Frar	ancesca chooses a letter at random from this word.															
	(a)	W	rite	dowr	n the l	etter sł	ne is m	ost lik	ely to	choose	e .						
	(b)	W	rite	dowr	n the p	orobabi	ility th	at she	choose	es the l	etter R					 	[1]
																 	[1]
12	Wri	te d	own	the	type c	of corre	lation	there i	s betw	veen							
	(a)	the	e nui	mber	of lit	res of t	fuel us	ed by	a car a	nd the	distand	ce it tr	avels,				
																 	[1]
	(b)	the	e tes	t sco	re of a	a stude	nt and	their s	hoe si	ze.							
																	[1]
																	[-]
13	Elev This	ven s lis	chile t sho	dren ows t	attem he nu	pt to so mber o	olve a j of atten	puzzle npts ea	Ich chi	ld mad	le.						
						_	_		_			_		_			
					7	6	8	5	6	5	7	8	3	8	1		
	(a)	W	rite	dowr	n the r	node.											
																 	[1]
	(b)	Fii	nd tł	ne me	edian.												
																 	[2]

14 Calculate.

(a)
$$\frac{4}{5}$$
 of 90
(b) $\frac{7.1 \times 4.8}{15.3 - 9.62}$

(c) $\sqrt[3]{4913}$

15 Solve the simultaneous equations. You must show all your working.

$$2x + 3y = 13$$
$$x + 2y = 9$$

x =[3]

.....[1]

.....[1]

.....[1]

16



(a)	Construct the locus of points, inside the triangle, that are 5 cm from B .	[1]
(b)	Construct the locus of points, inside the triangle, that are equidistant from AB and BC.	[2]
(c)	Shade the region, inside the triangle, containing points that are	
	• more than 5 cm from <i>B</i> and	

• nearer to *AB* than to *BC*.

[1]



Using trigonometry, calculate the value of x.

x =[3]

18 Find the *n*th term of each sequence.

17

(a) 7, 13, 19, 25, 31, ...

.....[2]

(b) 9, 16, 25, 36, 49, ...

.....[2]



(ii) angle *PWQ*.

Angle *PWQ* =[1]

20



- **21 (a)** Solve the equation.
 - 4x + 3 = 11

x =[2]

(b) Make *x* the subject of the formula $y = 4x^2 - 2$.

x =[3]

11

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