	INIVERSITY OF CAMBRIDGE INTERN International General Certificate of Seco		abaCambrid.
NUMBER		NUMBER October/Nove	
Candidates answ Additional Materia	er on the Question Paper. als: Electronic calculator Mathematical tables (optional)	Geometrical instruments Tracing paper (optional)	1 hour

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 a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, 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.

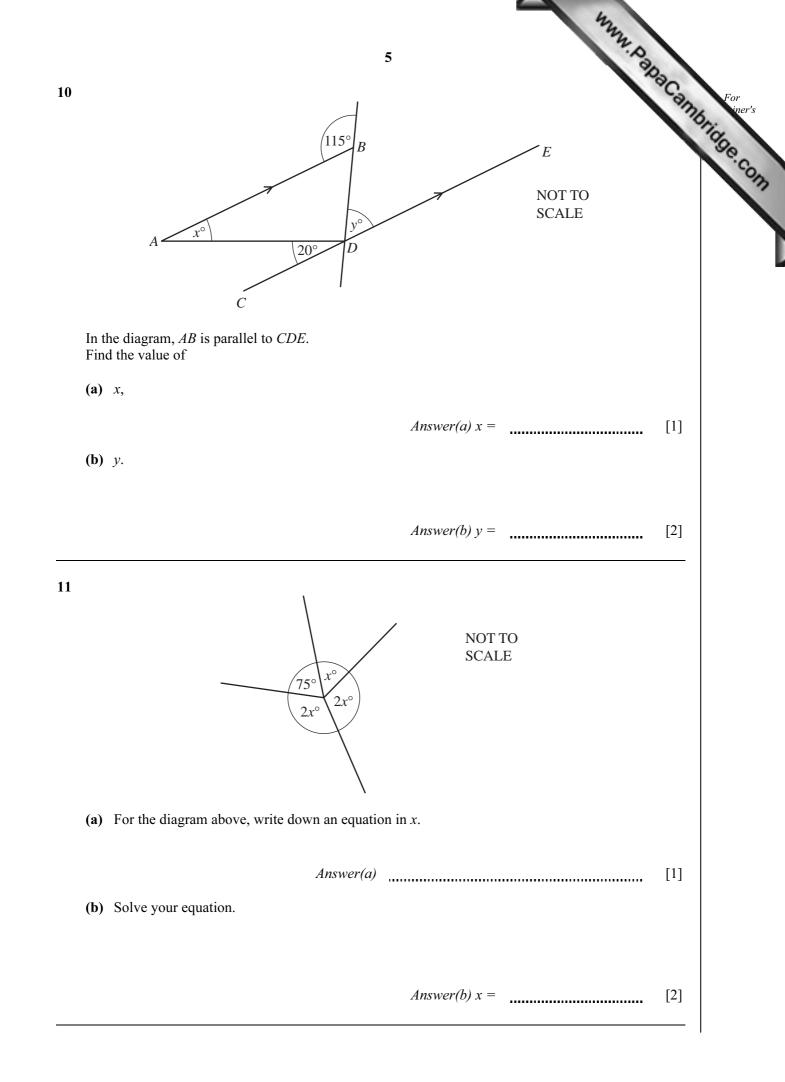
This document consists of **12** printed pages.



Joseph changed 120 New Zealand dollars (NZ\$) into Australian dollars (A\$) when the exchange rate was NZ\$1 = A\$0.796. Calculate the exact amount he received. Image: mail of the exact amount he received. A bus leaves a port every 15 minutes, starting at 09 00. Image: mail of the exact amount he received at 17 30. How many times does a bus leave the port during one day? Image: mail of the exact amount he exchange rate of the exact amount he exchange rate of the exact amount he received. Write the following in order of size, starting with the smallest. 9 9 1.2 115% 1 1 1 6	The temperature on Monday is 3 °C. On Tuesday it is 5 °C lower. Find the temperature on Tuesday. $answer \ \dots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		42
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(usuum	Answer < [2]	$\frac{9}{8}$ 1.2 115%	$1\frac{1}{6}$
Answer $ [2] $		Answer	< < [2]

	3	MAN D	
5	Mortar is a mixture of cement, sand and lime in the ratio		aca
	cement: sand: lime = $1:5:2$.		
	Calculate how much sand there is in a 12 kg bag of this	o mortar.	
		Answer kg	[2]
	Find the cube root of 96. Give your answer correct to 2 decimal places.		
		Answer	[2]
	Write these numbers in standard form.		
	(a) 734 000 000		
		Answer(a)	[1]
	(b) 0.000587		
	(b) 0.000387		

8	4 The population, <i>P</i> , of Brunei in 2008 was 400 000 correct to the nearest 1000. Complete the statement about the value of <i>P</i> .	aCan:
	Answer $ \leq P < \dots$	[2]
	Use your calculator to find the value of (a) $3^0 \times 2.5^2$,	
	(b) 2.5 ⁻² .	[1]
	Answer(b)	[1]



12 Jiwan incorrectly wrote $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} = 1\frac{3}{9}$. Show the correct working and write down the answer as a mixed number.

Answer [3]

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13 Solve these simultaneous equations.

$$5x - 2y = 17$$
$$2x + y = 5$$

Answer x =

y = [3]

6

- www.papacambridge.com 14 A bag contains only red, yellow and blue counters. Bashira picks a counter at random from the bag, records its colour, and puts it back in the bag. She does this 60 times.
 - (a) Complete the table for her results.

Colour	Frequency	Relative frequency
Red	19	
Yellow		
Blue	28	

[2]

(b) Gita picks a counter at random from the same bag.

Which colour counter is she most likely to pick?

Answer(b) [1]

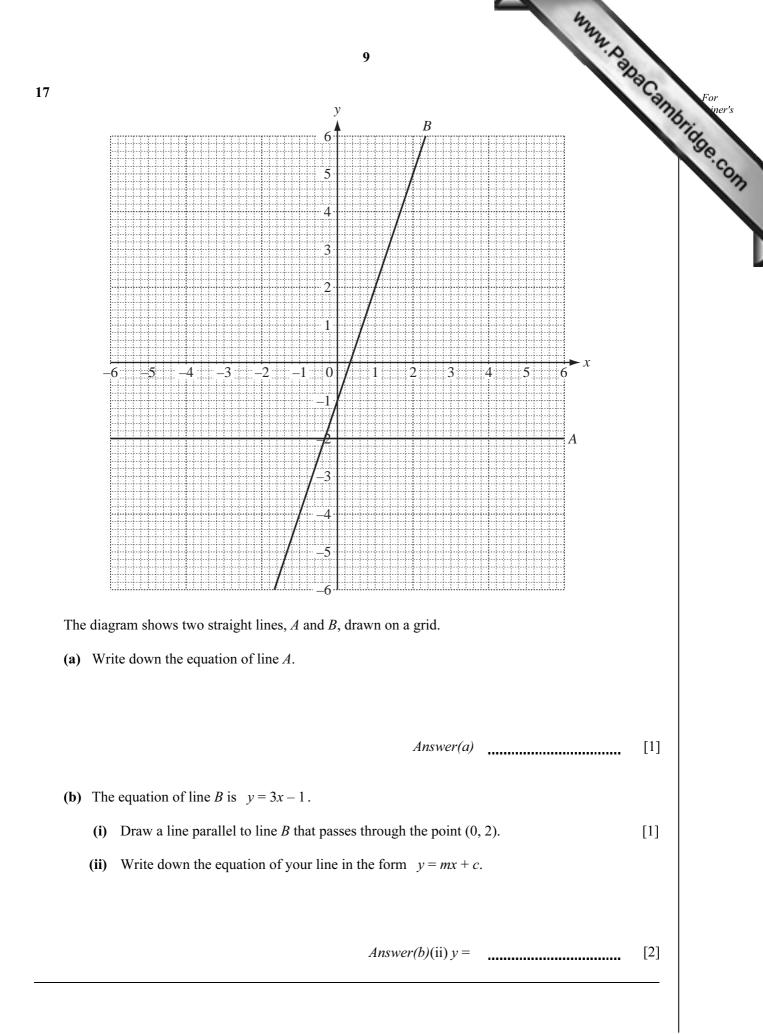
15 A cruise ship travels at 22 knots.

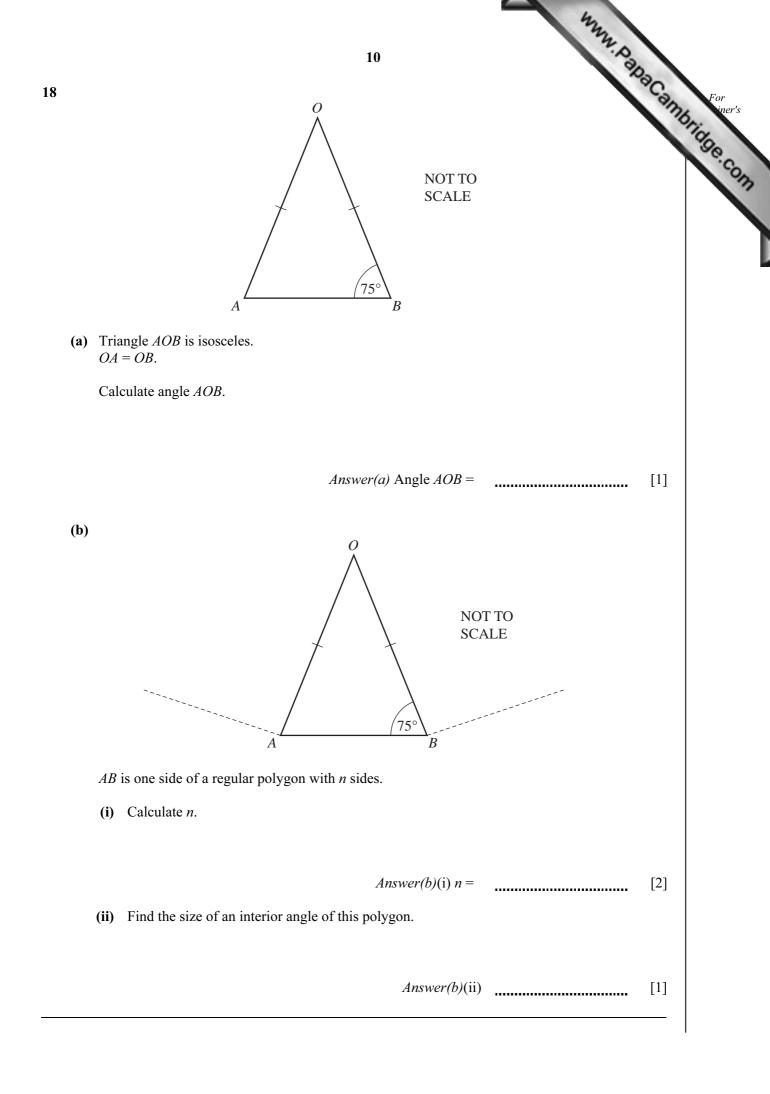
[1 knot is 1.852 kilometres per hour.]

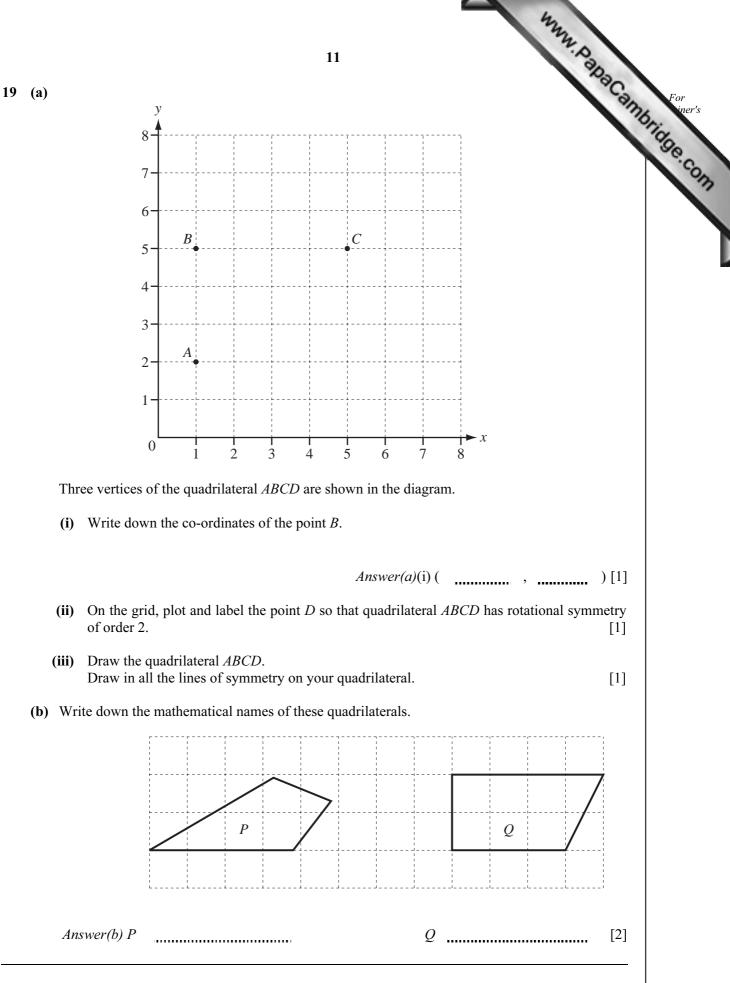
Convert this speed into metres per second.

Answer m/s [3]

6 (a) Write down a common multiple of 8 and 14.	8 WWW. Pak	Bacambridge.ga
(b) (i) Complete the list of factors of 81.	Answer(a)	[1]
1, (ii) Write down the prime factor of 81.	, , <u>.</u> , , 81	[2]
	Answer(b)(ii)	[1]







Question 20 is printed on the next page.

In a survey of 60 cars, the type of fuel that they use is recorded in the table below. 20

Each car only uses one type of fuel.

su	rvey of 60 cars, the typ	1 pe of fuel that they use	2 is recorded in the table	e below.	Pacamphinge com
c	ar only uses one type of	of fuel.			http://www.iner's
	Petrol	Diesel	Liquid Hydrogen	Electricity	Se.com
	40	12	2	6	

(a) Write down the mode.

Answer(a) [1]

(b) Olav drew a pie chart to illustrate these figures.

Calculate the angle of the sector for Diesel.

Answer(b) [2]

(c) Calculate the probability that a car chosen at random uses Electricity.

Write your answer as a fraction in its simplest form.

[2] Answer(c)

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