

Candidates answer on the Question Paper Additional Materials: Geometrical Instruments

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.

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

You may use a pencil for any diagrams or graphs.

DO NOT WRITE IN ANY BARCODES.

Answer all the questions.

CALCULATORS MUST NOT BE USED IN THIS PAPER.

All answers should be given in their simplest form.

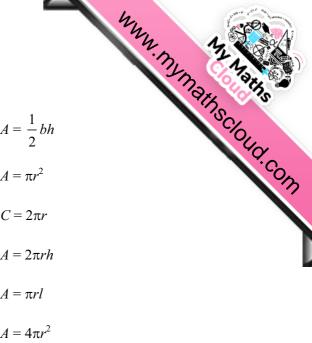
You must show all the relevant working to gain full marks and you will be given marks for correct methods even if your answer is incorrect.

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 40.

This document consists of 11 printed pages and 1 blank page.

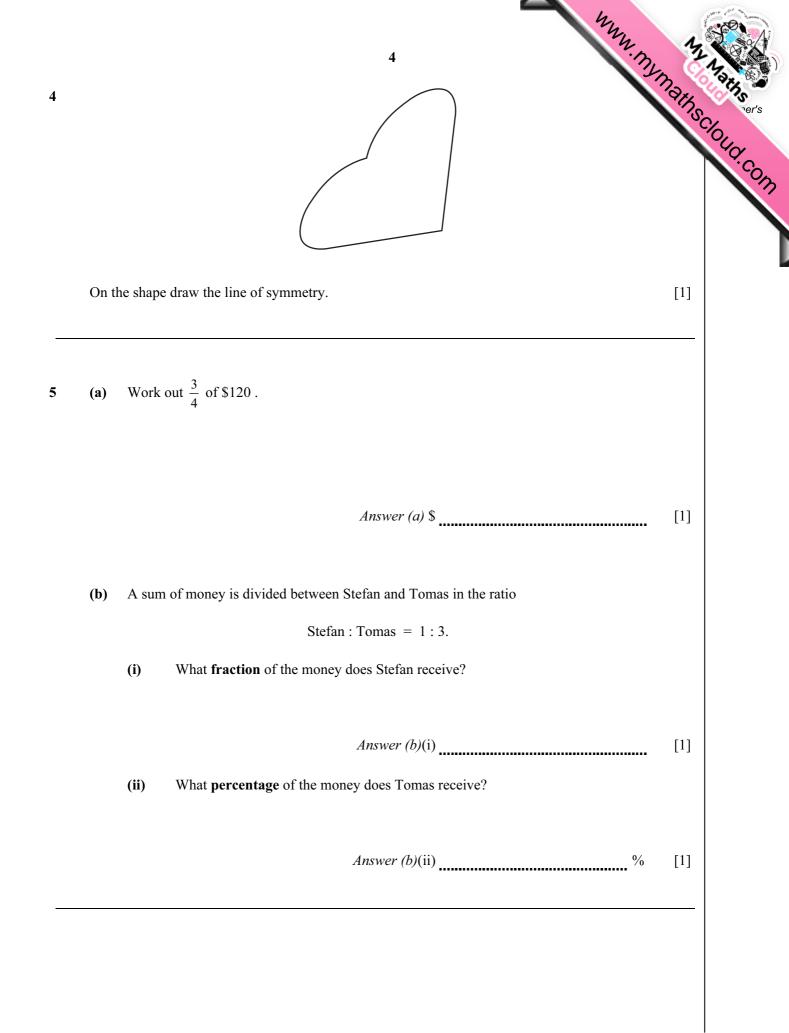


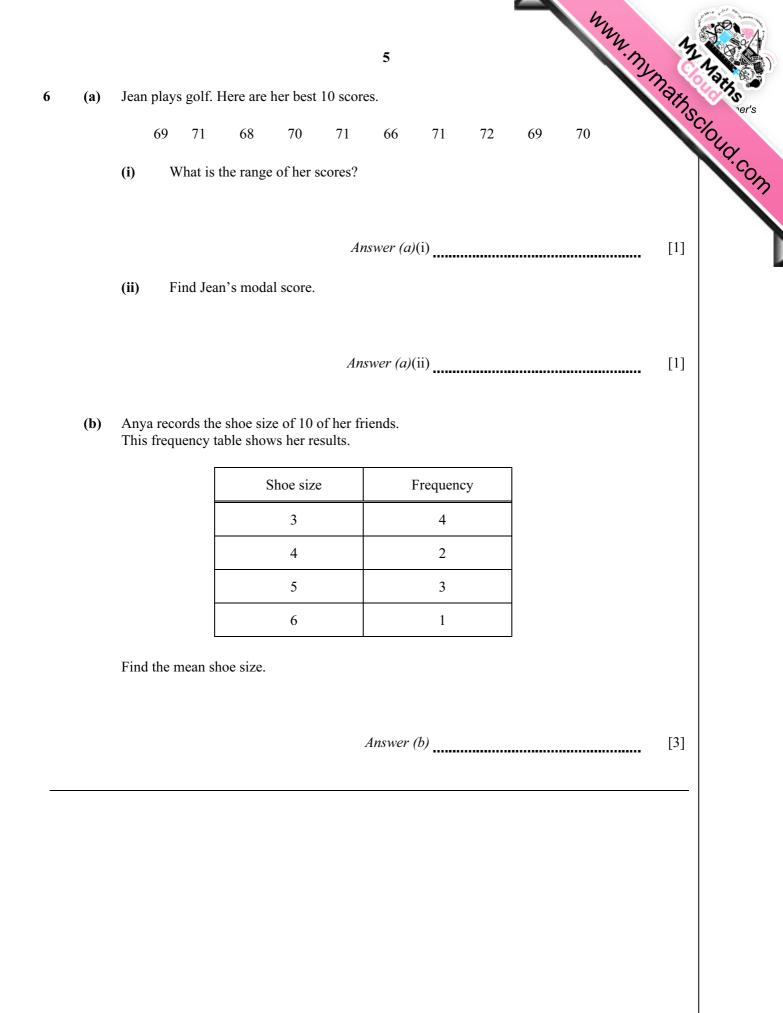


Formula List

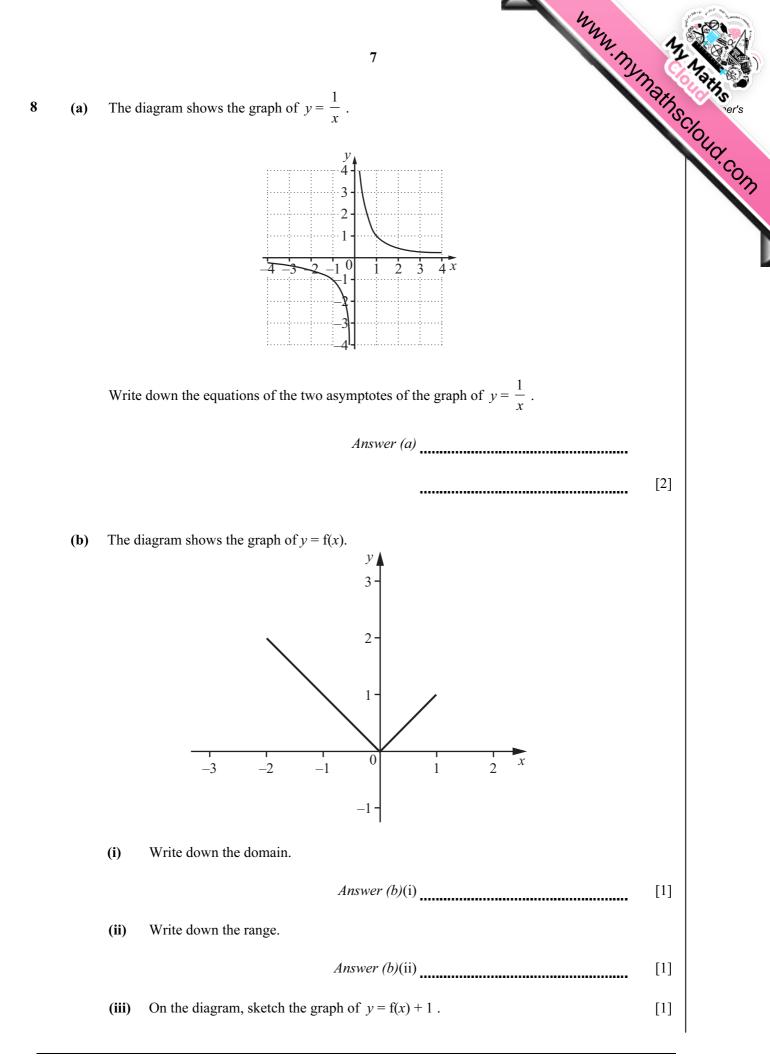
Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C, of circle, radius r.	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A = 2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Curved surface area, A , of sphere of radius r .	$A=4\pi r^2$
Volume, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	V=Al
Volume, V , of pyramid, base area A , height h .	$V=\frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

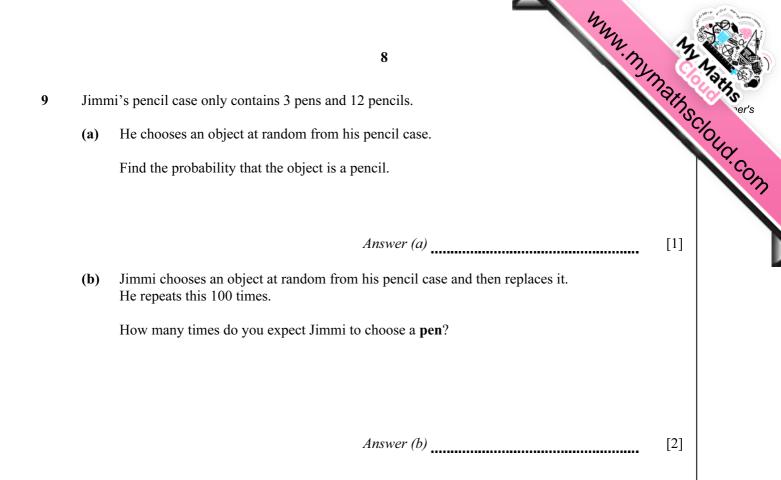
	3	Mathscioud.
l	Write 8572	naths "
	(a) correct to the nearest 10,	Cloud
	Answer (a)	
	(b) correct to the nearest 100.	
	Answer (b)	[1]
	Put one of $+$ $ \times$ \div in the box to make the following correct. $3 \times (11 \ 5) = 18$	[1]
	Write the following in order, starting with the smallest.	
	2^5 5^2 3^3	
	Answer <	[2]

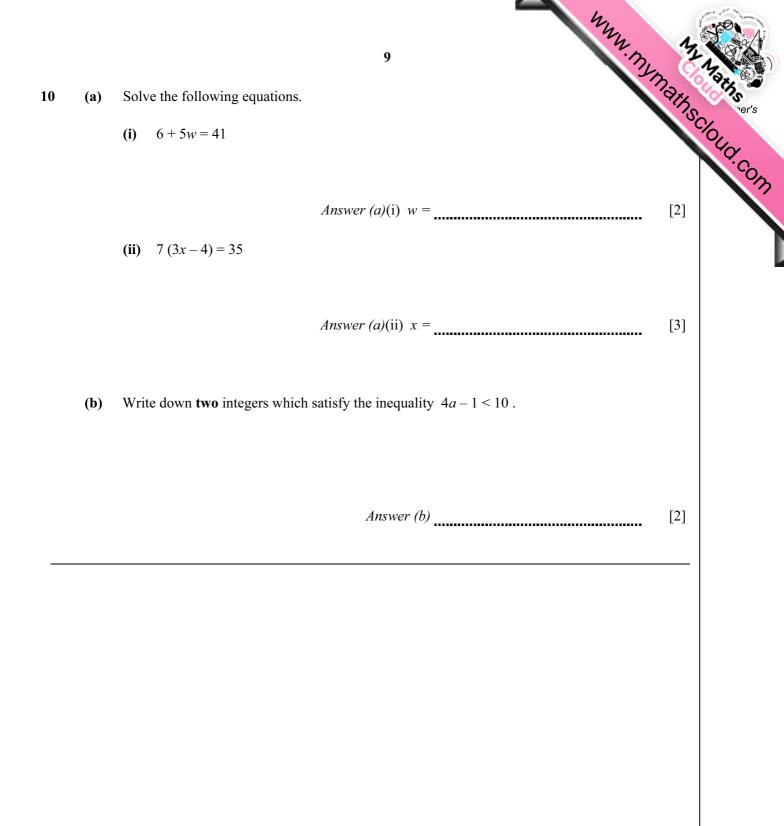


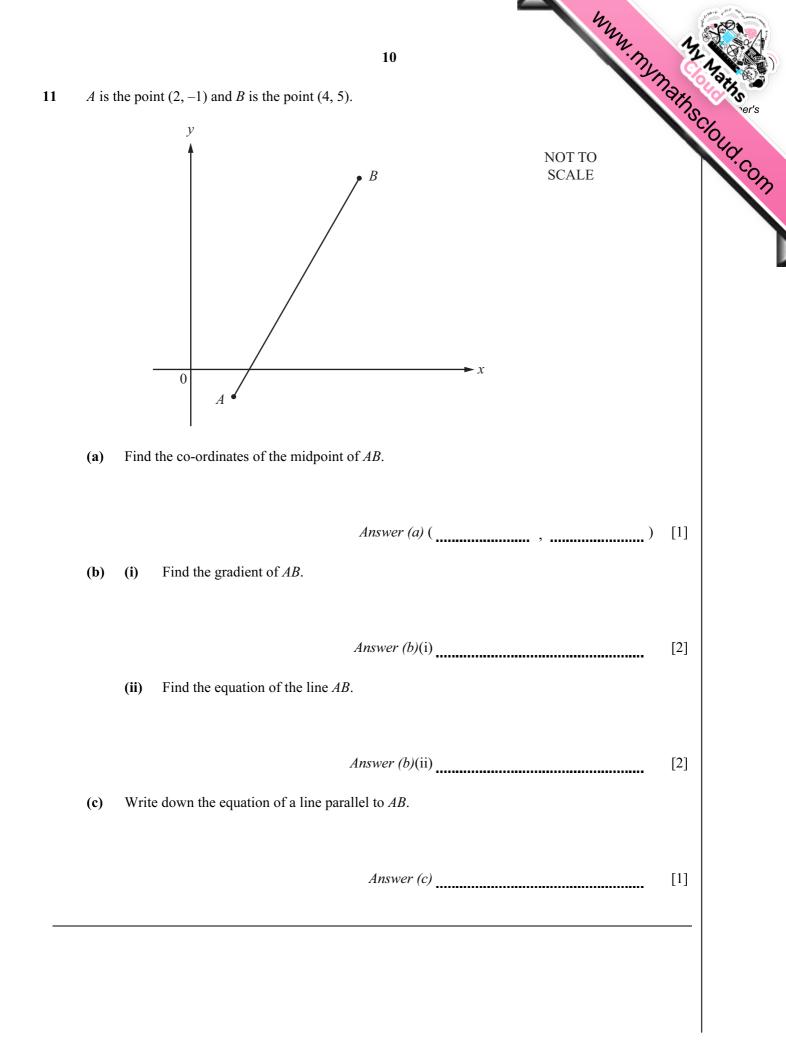


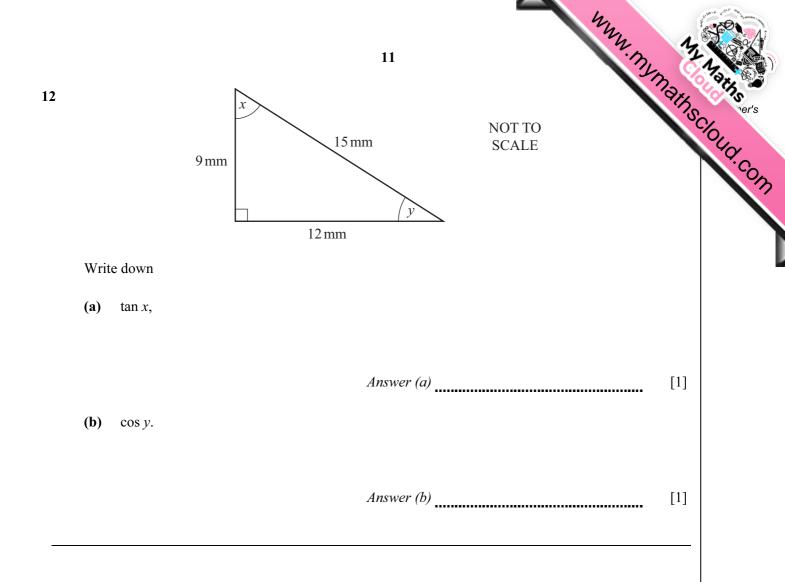
In th	e diagram <i>BE</i> is the diamete	6 er of the circle and AC is a tangent	to the circle at <i>B</i> .	In athscioud.
	C		NOT TO SCALE	39.
(a)	Write down the size of an	gle BDE.		
(b)	Write down the size of an	Answer (a)		[1]
		Answer (b)		[1]
(c)				
	diameter	radius	sector	
	chord	circumference	centre	
		Answer (c)		[1]













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