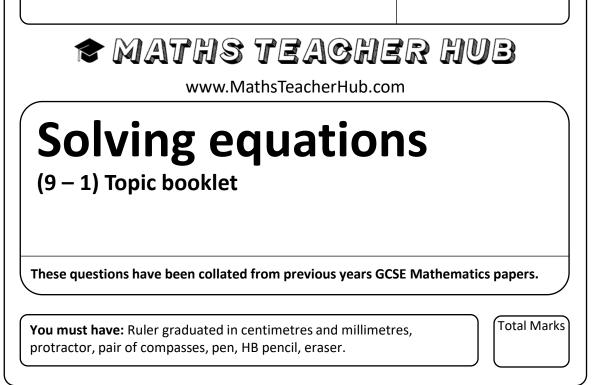
Name

Class



Instructions

•Use **black** ink or ball-point pen.

•Fill in the boxes at the top of this page with your name, centre number and candidate number.

- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.

•Diagrams are NOT accurately drawn, unless otherwise indicated.

•You must show all your working out.

•If the question is a **1F** question you are not allowed to use a calculator.

•If the question is a 2F or a 3F question, you may use a calculator to help you answer.

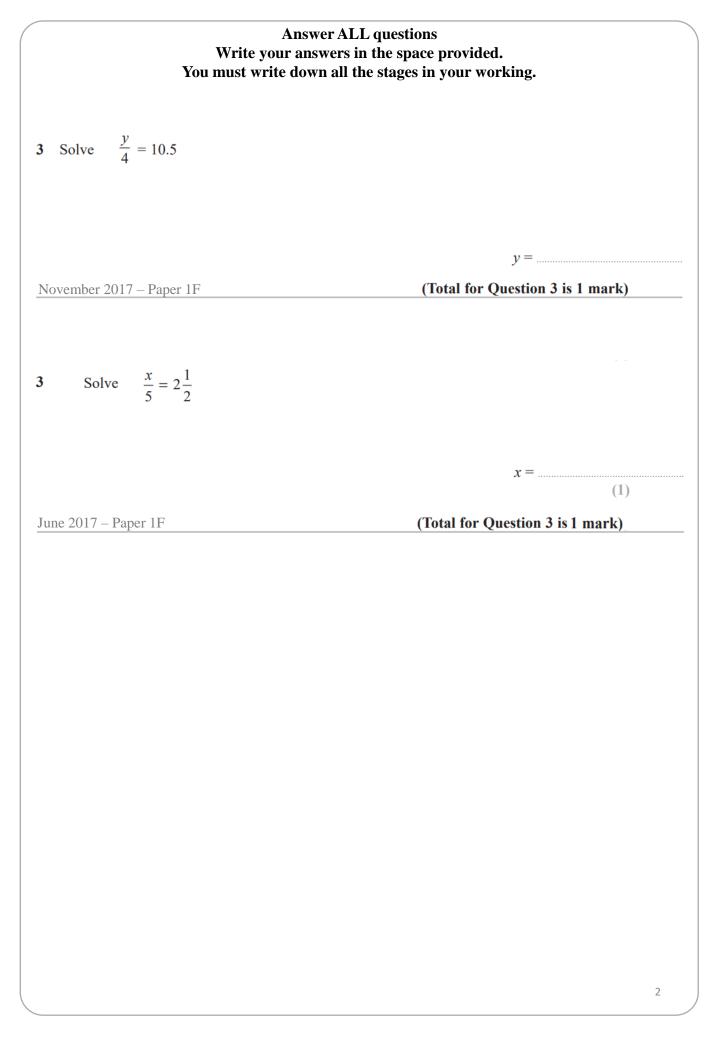
Information

•The marks for each question are shown in brackets

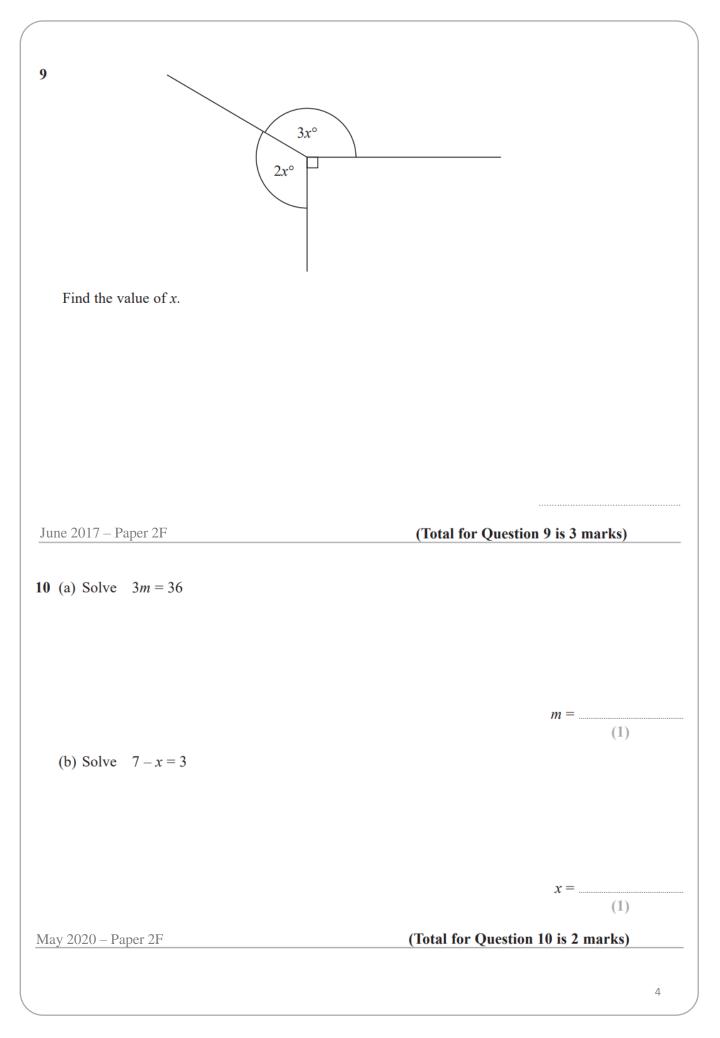
- use this as a guide as to how much time to spend on each question.

Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.



(a) Solve $f + 2f + f = 20$	
	<i>f</i> =
	(1)
(b) Solve $18 - m = 6$	
	m =(1)
becimen 1 – Paper 3F	(Total for Question 7 is 2 marks)
(a) Solve $m - 3 = 4$	
	m =(1)
(b) Solve $3n + n = 24$	(1)
	n =(2)
ovember 2022 – 1F	(Total for Question 8 is 3 marks)



10 (a) Solve $t+t+t=12$ t=			
(1) (b) Solve $x-2=6$ x =	10 (a) Solve $t + t + t = 12$		
(1) (b) Solve $x - 2 = 6$ x =			
(1) (b) Solve $x - 2 = 6$ x =		<i>t</i> –	
(c) Solve $6w + 2 = 20$ $w = \frac{1}{2}$ June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$ $x = \frac{1}{2}$		<i>l</i> –	
(1) (c) Solve $6w + 2 = 20$ $w = \frac{1}{2}$ June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$ $x = \frac{1}{2}$	(b) Solve $x - 2 = 6$		
(1) (c) Solve $6w + 2 = 20$ $w = \frac{1}{2}$ June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$ $x = \frac{1}{2}$			
w = (2) June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$		<i>x</i> =	
(2) June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$	(c) Solve $6w + 2 = 20$		
(2) June 2019 – Paper 1F (Total for Question 10 is 4 marks) 10 Solve $3x + 7 = 1$			
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10 Solve $3x + 7 = 1$		w =	
x =	June 2019 – Paper 1F	(Total for Question 10 is 4	marks)
x =	10 Solve $3x + 7 = 1$		
<i>x</i> =			
<i>x</i> =			
(2)		<i>x</i> =	(2)
Specimen 2 – Paper 1F (Total for Question 10 is 2 marks)	Specimen 2 – Paper 1F	(Total for Question 10 is 2	marks)
			5

$0 \qquad \text{Solve} 3x - 5 = 9$	
	<i>x</i> =
male 1 Denor DE	(2) (Total for Oraction 10 is 2 membr)
mple 1 – Paper 2F	(Total for Question 10 is 2 marks)
(a) Solve $x + x + x = 51$	
	$x = \dots $
(b) Solve $\frac{y}{4} = 3$	
4	
	y =(1)
(c) Solve $2f + 7 = 18$	
	<i>f</i> =
	f =(1)
ay 2018 – Paper 2F	(Total for Question 11 is 3 marks)

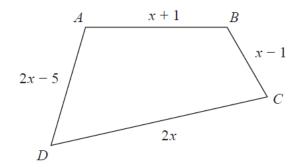
14	Solve $5(2m - 6) = 40$	
	<i>m</i> =	(3)

November 2022 – 2F

(Total for Question 14 is 3 marks)

Solve $5p + 7 = 22$	
	<i>p</i> =
	p =(2)
ay 2020 – Paper 3F	(Total for Question 14 is 2 marks)
Solve $4x - 7 = 37$	
	<i>x</i> =
	(2)
vember 2021 – Paper 1F	(Total for Question 15 is 2 marks)

16 Here is a quadrilateral *ABCD*.



All the measurements are in centimetres.

The perimeter of ABCD is 52 centimetres.

Work out the length of DC.

centimetres

November 2022 – 1F

(Total for Question 16 is 4 marks)

16 Solve $3(m-4) = 21$	
	<i>m</i> =
	<i>m</i> –(2)
May 2018 – Paper 1F	(Total for Question 16 is 2 marks)
X	
16 (a) Solve $4c + 5 = 11$	
	<i>c</i> =
(b) Solve $5(a+7) = 20$	(2)
(b) Solve $5(e+7) = 20$	
	<i>e</i> =
	(2)
Specimen 1 – Paper 2F	(Total for Question 16 is 4 marks)

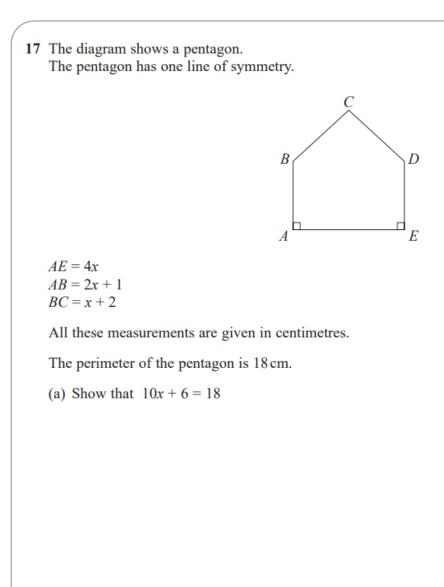
Solve $5x - 6 = 3(x - 1)$	
	<i>x</i> =
November 2017 – Paper 2F	(Total for Question 16 is 3 marks)
ovenioer 2017 - 1 aper 21	(Total for Question to is 5 marks)
7 Solve $5p = 3p + 8$	
	<i>p</i> =
	P (2)
pecimen 2 – Paper 2F	(Total for Question 17 is 2 marks)
	(Total for Question 17 is 2 marks)
Solve $2(5x - 4) = 21$	
2(3x-4) - 21	
	<i>x</i> =
Jovember 2021 – Paper 3F	x =(3) (Total for Question 17 is 3 marks)

17 Solve
$$\frac{3y}{4} = 12$$

y =(2)

June 2022 – Paper 3F

(Total for Question 17 is 4 marks)



(b) Find the value of *x*.

(3)

x =

(2)

November 2018 – Paper 3F

(Total for Question 17 is 5 marks)

9 Solve $7(f-5) = 28$	
	$f = \dots$ (2)
lay 2020 – Paper 1F	(Total for Question 19 is 2 marks)

9 Solve $3(x-4) = 12$	
	x =(2)
lovember 2018 – Paper 2F	(Total for Question 19 is 2 marks)
9 Solve $4(x-6) = 44$	
$- \frac{1}{2} - $	
	<i>x</i> =
lovember 2019 – Paper 3F	(Total for Question 19 is 2 marks)

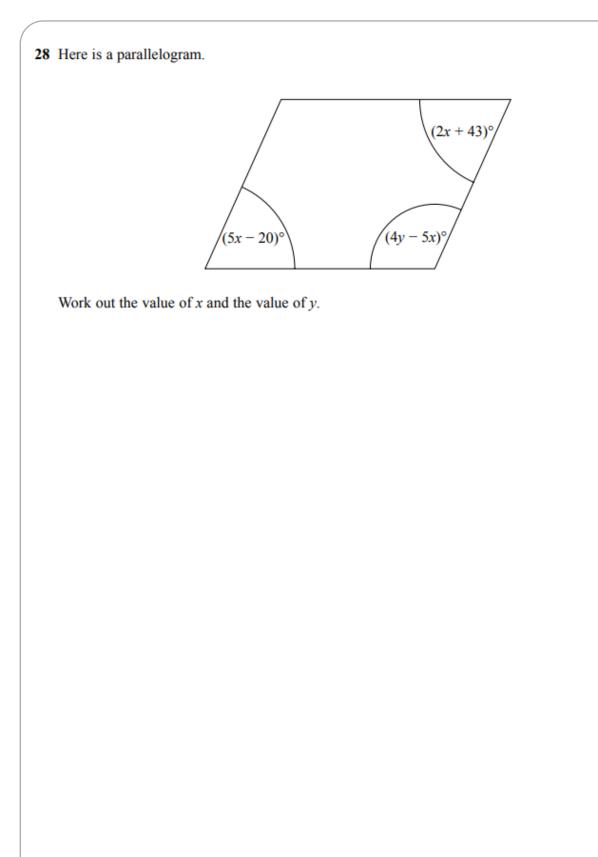
19 Solve $4(x-5) = 18$	
L 2017 D 15	$x = \dots $
June 2017 – Paper 1F 19 Solve $4x + 5 = x + 26$	(Total for Question 19 is 2 marks)
	<i>x</i> =
ample 1 – Paper 1F	(Total for Question 19 is 2 marks)

	(2)
November 2017 – Paper 2F	(Total for Question 24 is 2 marks)

June 2017 – Paper 2F

(Total for Question 24 is 3 marks)

25 Solve $\frac{5-x}{2} = 2x - 7$	
$\frac{25}{2}$ solve $\frac{-2x-7}{2}$	
	<i>x</i> =
May 2018 – Paper 3F	(Total for Question 25 is 3 marks)
27 Solve w^2 7 w 18 = 0	
27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
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27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
27 Solve $x^2 - 7x - 18 = 0$	
	(Total for Question 27 is 3 marks)
27 Solve $x^2 - 7x - 18 = 0$ <u>November 2021 – Paper 1F</u>	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)
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	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)
	(Total for Question 27 is 3 marks)



x = y =

Sample 1 – Paper 1F

(Total for Question 28 is 5 marks)