Name:

GCSE (1 – 9)

Solving Equations

Instructions

- Use **black** ink or ball-point pen.
- 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.

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

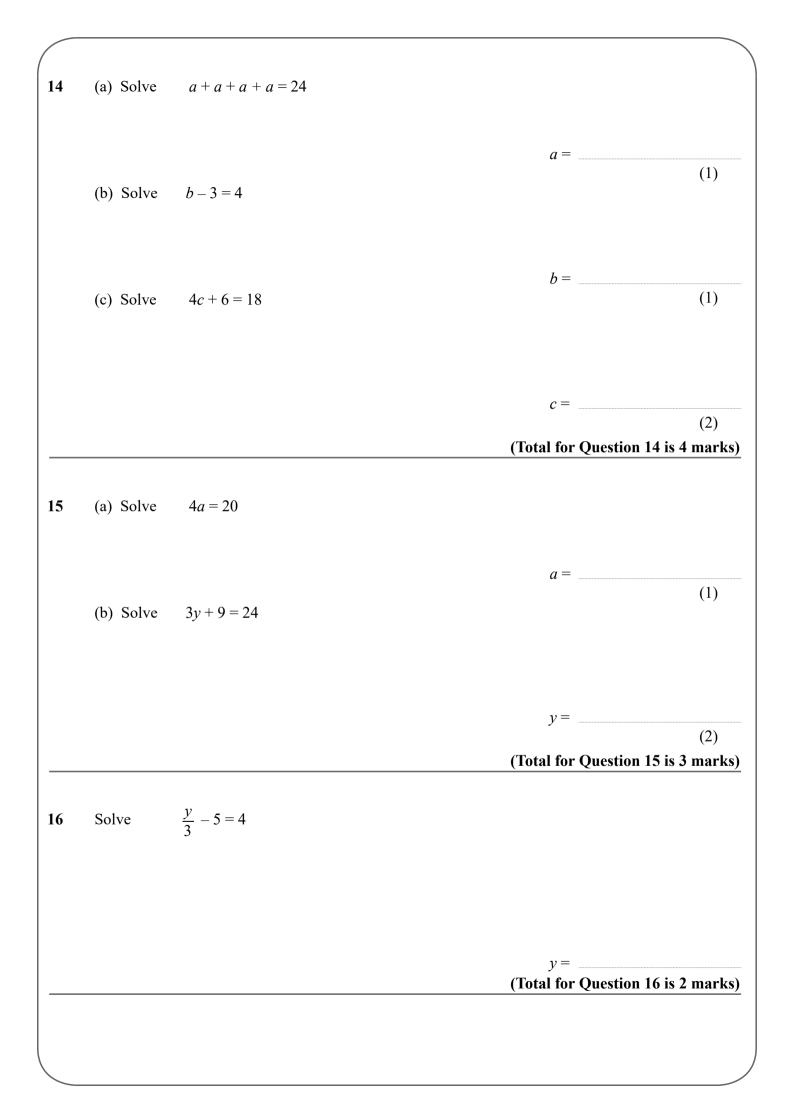
- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

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1	Write a number in each box to make the calculation correct.	
	(i) $7 + $ = 12	(1)
	(ii) 11 – = 3	(1)
		(Total for Question 1 is 2 marks)
2	Solve $x + 4 = 19$	
		x =
		(Total for Question 2 is 1 mark)
3	Solve $\frac{d}{2} = 9.5$	
		<i>d</i> =
		(Total for Question 3 is 2 marks)
4	Solve $7y = 63$	
		<i>y</i> =
		(Total for Question 4 is 1 mark)
5	Solve $5 - m = 12$	
		<i>m</i> =
		(Total for Question 5 is 1 mark)
6	Solve $5g = 40$	
		g =
		(Total for Question 6 is 1 mark)

	Solve	4(a-3) = 22	
			<i>a</i> =
			(Total for Question 7 is 2 marks)
	Solve	5(x-6) = 65	
			x =(Total for Question 8 is 2 marks)
	Solve	8(m-5) = 48	
			<i>m</i> =
			(Total for Question 9 is 2 marks)
)	(a) Solve	x + 7 = 13	
			x = (1)
	(b) Solve	3h - 5 = 12	(1)
			h =
			(2)

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11	(a) Solve	x + x + x = 42	
	(b) Solve	$\frac{y}{3} = 4$	x = (1)
	(c) Solve	2a - 5 = 19	<i>y</i> =(1)
			x =(1) (Total for Question 11 is 3 marks)
12	Solve	3(b-5) = 27	
			<i>b</i> =
13	(a) Solve	$\frac{2x}{3} = 6$	
	(b) Solve	2(n+5) = 15	x = (2)
 			n =(2) (Total for Question 13 is 3 marks)



17	(a) Solve	3 = 9 - 4k		
	(b) Solve	$\frac{d+3}{4} = 5$	<i>k</i> =	(2)
			<i>d</i> =	(2)
8	(a) Solve	6w = 4w + 9	(Total for Question	17 is 4 marks
	(b) Solve	3x + 8 = 2	w =	(2)
			<i>x</i> =	(2)
			(Total for Question	18 is 4 marks
9	(a) Solve	2p + 24 = 5p		
			<i>p</i> =	(2)
	(b) Solve	24 = 4(2x - 5)		
			x = (Total for Question	(2)
			(Total for Question	

20	Solve	3x + 12 = 5x + 4	
			<i>x</i> =
			(Total for Question 20 is 2 marks)
21	Solve	2m - 20 = 10 + 7m	
			<i>m</i> =
22	Solve	10 - 2s = s - 8	
	50170	10 - 23 - 3 - 0	
			a —
			s =(Total for Question 22 is 2 marks)
23	Solve	6y + 11 = 3y + 5	
			y =(Total for Question 23 is 2 marks)

24	Solve	7y + 18 = 2y + 28	
			<i>y</i> =
			(Total for Question 24 is 2 marks)
25	Solve	2x + 20 = 6x - 12	
			x =(Total for Question 25 is 2 marks)
26	Solve	3x - 9 = x - 8	
			x =(Total for Question 26 is 2 marks)
27	Solve	10t - 19 = 7t - 14	
			<i>t</i> =
			(Total for Question 27 is 2 marks)