



THIRD SPACE  
LEARNING

# Year 7


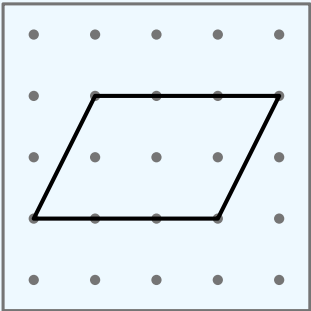
# Maths Test

# Mark Scheme

KS3 Maths

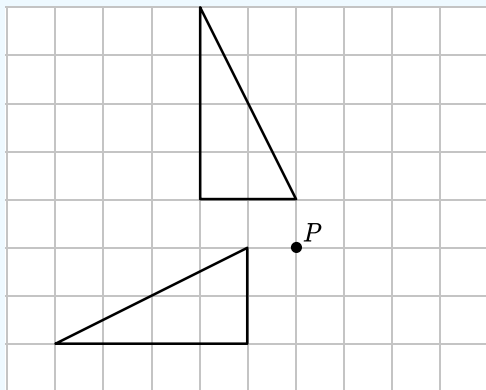
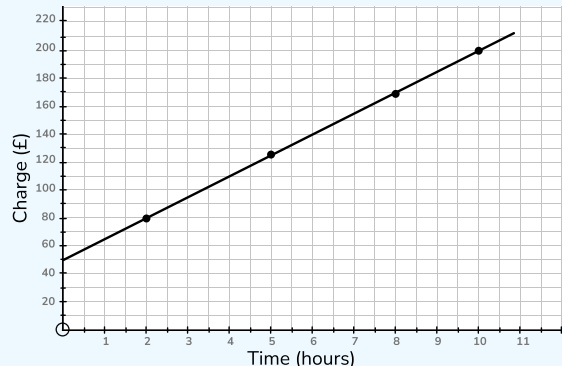
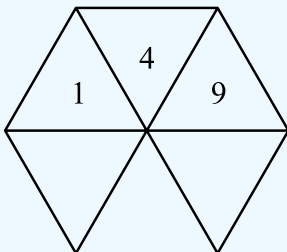
# Mark scheme and grade boundaries

Mark	Old National Curriculum Level	New GCSE grade
0 - 5	2	-
6 - 15	3	-
16 - 28	4	1
29 - 42	5	2
43 - 50	6	3

Question	Calculation	Answer	Notes
Q1a		33	
Q1b		Week 4	
Q1c		Accessories	
Q2		£1 20p 10p 5p 2p 2p	
Q3a		800ml	
Q3b		0.8l	
Q4a			Any parallelogram
Q4b		Rectangle	

Question	Calculation	Answer	Notes
Q5a i		=	
Q5a ii		≠	
Q5b		26.63	
Q6a			Any correct pair of numbers
Q6b			Any correct pair of numbers
Q7a	Area: $3 \times 7 = 21$ Perimeter: $3 + 7 + 3 + 7 = 20$	A: $21\text{cm}^2$ P: $20\text{cm}$	M1 One correct
Q7b	Area: $3 \times 21 = 63$ Perimeter: $3 + 4 + 10 + 7 + 3 + 4 + 10 + 7 = 48$	A: $63\text{cm}^2$ P: $48\text{cm}$	M1 Area correct M1 $4\text{cm}$ seen (may be labelled on diagram) with attempt to add all side lengths
Q8a	She hasn't lined up numbers correctly - the decimal points should line up		Any correct explanation
Q8b	She has calculated $3 - 7 = 4$		Any correct explanation
Q9a	$120 \div 4 = 30$	30	
Q9b	Rabbit: $120 \div 6 = 20$ Dog: $120 - 30 - 20 = 70$ Difference: $70 - 20 = 50$	50	M1 Rabbit = 20 people M1 Dog = 70 people

Question	Calculation	Answer	Notes
<b>Q10a</b>	10% of 60: $60 \div 10 = 6$ 5% of 60: $6 \div 2 = 3$ 35% of 60: $6 + 6 + 6 + 3 = 21$		M1 10% of 60 = 6 seen Must have fully correct method for 2 marks
<b>Q10b</b>	$60 \div 12 = 5$ $5 \times 5 = 25$	25	M1 $60 \div 12 = 5$
<b>Q10c</b>	$60 \div 6 = 10$ $1 \times 10 = 10$	10	M1 $1 + 5 = 6$ seen or implied
<b>Q11a</b>		$38^\circ$	
<b>Q11b</b>	$180 - 90 - 38 = 52$ Because angles in a triangle add up to $180^\circ$	$52^\circ$	M1 $52^\circ$ Explanation must include 'angles in a triangle add up to $180^\circ$ or equivalent
<b>Q12a</b>	$40 \div 5 = 8$ oranges per litre $8 \times 12 = 96$	96	M1 $40 \div 5 = 8$ oranges per litre
<b>Q12b</b>	$4000 \div 20 = 200$ minutes 200 minutes = 3 hours 20 minutes 8am + 3 hours 20 mins = 11:20am	11:20 am	M1 $4000 \div 20$ M1 Correctly converting their time in minutes to hours
<b>Q13a</b>		$-3m$	
<b>Q13b</b>		$-13p$	
<b>Q13c</b>		$-12p$	

Question	Calculation	Answer	Notes										
Q14			M1 A rotation of 90° clockwise										
Q15a	<table><tr><td><math>h</math></td><td>2</td><td>5</td><td>8</td><td>10</td></tr><tr><td><math>C</math></td><td>80</td><td>125</td><td>170</td><td>200</td></tr></table>	$h$	2	5	8	10	$C$	80	125	170	200	10, 125	M1 One correct M1 Both values correct
$h$	2	5	8	10									
$C$	80	125	170	200									
Q15b			M1 <i>ft</i> At least 3 points plotted correctly M1 Straight line drawn connecting points										
Q16		1, 4, 9  Any 2 of 3, 5, 7  Any 1 of 6, 8	M1 1, 4 and 9 M1 4 odd numbers or 2 prime numbers										

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