Detailed Marking Instructions for each question

Question		on	Expected Answer(s) Give one mark for each •	Max Mark	Illustrations of evidence for awarding a mark at each •
1.			Ans: $\frac{1}{10}$	2	
			 ¹ Strategy: know how to calculate probability 		• $\frac{3}{30}$
			• ² Process: correctly simplify		$\bullet^2 \frac{1}{10}$
Note		1.10	, 1 in 10, 10%	I	
	-		es if $\frac{3}{17}$ Award 1 mark		
_, .,					
			if $\frac{3}{7}$ Award 1 mark		
3. lf	tree	diagr	The term and the term of $\cdot \frac{17}{30}$ $\cdot \times \frac{3}{17} = \frac{1}{10}$		
2.			Ans: no with reason	3	
			• ¹ Strategy: find temperature from scale		• ¹ 37·7°C
			• ² Strategy: determine upper limit of tolerance		• ² (36·4°C to) 37·2°C
			• ³ Communication: state conclusion		• ³ Frances is not in good health as her temperature (37·7°C) is above the upper tolerance (37·2°C) of good health.
				1	1
			Ans: 5 (m)	1	
			• ¹ Strategy: Use Pythagoras to find AB.		• 1 AB = $\sqrt{3^{2} + 4^{2}}$ = 5
Note	es:				

Question		on	Expected Answer(s) Give one mark for each •	Max Mark	Illustrations of evidence for awarding a mark at each •
	(b)		Ans: 21 m ²	2	
			• ¹ Strategy: know to find areas of two triangles and add		• ¹ Evidence
			• ² Process/Communication: calculate areas and add, stating units		• ² 6 + 15 = 21
Not 1. li	-	and 1	5m ² are clearly shown, but not ad	ded, award 1	/2
4.	(a)		Ans: £259	1	
			 ¹ Process: calculate take home pay in £ 		• ¹ 296 - (28·43 + 8·57) = 259
Not	es:			<u> </u>	
	(b)		Ans: yes with reason	3	
			 ¹ Strategy/Process: calculate holiday fund 		• ¹ 259 - (76 + 41 + 45 + 30 + 23) = 44
			• ² Process: find total cost of holiday and total holiday fund 13 × 44		• ² 520 and 572
			• ³ Communication: state conclusion with reason		• ³ Yes he can afford the holiday as he can save £52 more than he needs.
2. 1 foll 3. I has 4. A	Vorkin st mar ow thr f holid been Nark 3	k is f rough lay fu eased is av	from (a) - and could be a deficit Ind is <0 (or "deficit" mentioned)		tal outgoings - and is available for vailable as subsequent working

5. Alternative: 13 x 259 - 13 x 215

Question		Expected Answer(s) Give one mark for each •	Max Mark	Illustrations of evidence for awarding a mark at each •
5.		 Ans: 8200 metres (8·2 km) ¹ Strategy: Evidence of suitable conversion of units ² Strategy: Know how to find distance ³ Process: calculate distance correctly ⁴ Communication: round answer correctly, using appropriate units 	4	• ¹ 20 min x 60 (change to secs) 6.8 m/s x 60 (m per min) • ² $D = 5 \times t = 6.8 \times 20 \times 60$ • ³ $D = 8160$ metres • ⁴ $D = 8200$ metres or 8.2 kilometres
Note	es:	[
6.	(a)	 Ans: task letters and times inserted in chart ¹ Strategy: start to allocate tasks ² Strategy: complete allocation of tasks 	2	 ¹ Any 5 boxes correct ² Remaining 3 boxes correct
Note	Es:		5	 4 H 3

Question		on	Expected Answer(s) Give one mark for each •	Max Mark	Illustrations of evidence for awarding a mark at each •
	(b)		Ans: no with reason	2	
			• ¹ Stratgey: select critical path		• ¹ 5+8+(5+3)+4
			• ² Communication: state conclusion with reason		• ² no, because it will take 25 hours
2.	H/I ir (b) m Eg if	$\frac{C}{2}\frac{D}{8}$	hanged is acceptable can be awarded for incorrect critic $\frac{E}{6}\frac{I}{4} = 20$ hours 22 would gain mark	cal path with	valid comparison to 22 hours
7.	(a)		Ans: boys with valid reason	1	
Note	es:				
	(b)		Ans: 26, 18, 30	2	
			• ¹ Process: state the median		• ¹ 26
			• ² Process: state the quartiles		• ² 18, 30
Note	es:				
	(c)		Ans:	2	
			 ¹ Strategy: correct end points ² Strategy: correct box 		 ¹ end points at 10 and 42 ² box showing Q₁, Q₂, Q₃

1. Incorrect answers in part (b) must be followed through to give the possibility of awarding 2/2