

Day 4 Answers

Task 1	Task 2	Task 3	Task 4
<p>Developing task</p> <ol style="list-style-type: none"> Film 3 30 minutes Film 2 165 minutes 4 4 Bar chart showing 8 Comedy films, 4 Horror, 6 Children's and 2 Drama <p>Practice</p> <ol style="list-style-type: none"> 8 2 min 30 s 3 min 4 20 36 	<p>Arithmetic</p> <ol style="list-style-type: none"> 0 189 702 300 48 756 16 r3 or 16.5 or $16\frac{3}{8}$ or $16\frac{1}{2}$ 	<p>Problem Solving</p> <p>Task 1</p> <p>(a) 200</p> <p>(b) 50</p> <p>Task 2</p> <p>(a) Paris</p> <p>(b) 3</p> <p style="text-align: center;"><i>Do not accept -3.</i></p> <p>Task 3</p> <p>(a) £7</p> <p style="text-align: center;"><i>Accept an answer in the range £6.75 to £7.25 inclusive.</i></p> <p>(b) 4</p> <p style="text-align: center;"><i>Do not accept a list of classes.</i></p> <p>Task 4</p> <p>(a) 5</p> <p>(b) 45</p>	<p>Reasoning</p> <p>Task 1</p> <p>Indicates Nik and gives a correct explanation eg</p> <ul style="list-style-type: none"> 1 sandwich, 2 apples and 1 banana is missing from the graph and that is what Nik had in his lunch box The graph shows the correct number of fruit bars and Nik is the only one who does not have a fruit bar in his lunch box so his must be the missing one The totals from the table are 7, 6, 5, 6, and from the graph 6, 4, 4, 6, and the difference is Nik <p style="text-align: center;"><i>Accept minimally acceptable explanation</i> eg</p> <ul style="list-style-type: none"> 1 sandwich, 2 apples, 1 banana Because the number of fruit bars is correct 1 banana missing 7, 6, 5, 6 and 6, 4, 4, 6 seen <p style="text-align: center;"><i>Do not accept incorrect or incomplete explanation</i> eg</p> <ul style="list-style-type: none"> 1 sandwich, 2 apples There are 6 fruit bars 2 apples are missing <p>Task 2</p> <p>(a) 7</p> <p>(b) An explanation which recognises that the bar for summer is not twice as long as the bar for winter, eg:</p> <ul style="list-style-type: none"> '15 chose summer and 8 chose winter, and 15 is not twice 8' 'An odd number of children chose summer, so it can't be twice as many because children must be a whole number' 'More than half as many chose winter as chose summer' <p style="text-align: center;">$15 \div 2 = 7\frac{1}{2}$ not 8'</p> <ul style="list-style-type: none"> 'Because summer isn't 16' '8 × 2 = 16, not 15' '15 is 7 away from 8' <p style="text-align: center;"><i>No mark is awarded for circling 'No' alone.</i> <i>Do not accept vague or incomplete explanations, eg:</i></p> <ul style="list-style-type: none"> '15 chose summer and 8 chose winter' 'More children chose summer than winter'. <p>If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.</p>

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Task 3

Gives a correct explanation which demonstrates how the graph shows two children could be taller than Alfie, eg:

- One person from the class is 160-169cm. But someone as well as this person could be taller than Alfie. 2 people range from 150-159 cm, the other person could be 154, 155, etc.

Minimally acceptable explanation, eg:

- *It could be 1.64, 1.56, Alfie*
- *It depends on how tall the other person in his height group is*
- *There could be someone between 150-159 cm who is taller than Alfie*

! Condone incorrect use of boundary values, eg:

- *One child is in the range 160 cm–169 cm. Don't know how tall the other child between 150 cm and 159 cm is*

Do not accept incomplete or incorrect explanation, eg:

- *There is 1 child in the range 150 cm-159 cm taller than Alfie*
- *There could be two children taller than Alfie*

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