

## **The Mathematical Museum Answer Sheet**

<b>Exhibits</b>	<b>Answers</b>
<b>Ancient Egypt</b>	<p>Answers for the activities in this exhibit will depend on the accuracy of the measuring of each child's hand, foot and cubit.</p> <p>For the final activity children should hopefully combine written methods of addition and multiplication to work out the estimated lengths.</p>
<b>Ancient Greece</b>	<p>1.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>28</p> <p>Δ Δ Π Ι Ι Ι</p>   <p>56</p> <p>Δ Ι Π Ι</p> </div> <div style="text-align: center;"> <p>136</p> <p>Η Δ Δ Δ Π Ι</p>   <p>5600</p> <p>χι ηλ η</p> </div> </div> <p>2. a) 1050, b) 80, c) 5310, d) 10060</p>
<b>Birds of Prey</b>	<p>a) Sharp shinned hawk</p> <p>b) Sharp shinned hawk, booted eagle, falcon, buzzard, red tailed hawk &amp; vulture</p> <p>c) Buzzard &amp; vulture</p> <p>d) Falcon &amp; vulture</p> <p>e) Each of the bars representing each bird should be a consistent width and the scale on the axis representing the wing span should start at 0 and increase by consistent increments e.g. 10 or 20cm.</p>
<b>Dinosaurs</b>	<p>Afrovenator 9m &amp; 1,000kg</p> <p>Barosaurus 24m &amp; 12,000kg</p> <p>Carnotaurus 7.6m &amp; 2,000kg</p> <p>Diplodocus 26m &amp; 20,000kg</p> <p>Edmontosaurus 13m &amp; 3,400kg</p>
<b>Money</b>	<p>1. Robert and Abi put 1p, 2p, 4p and 8p in the four bags this allows them to pay any amount up to 15p without having to open a bag.</p> <p>2. Edward put 7coins in the first pile, 3 in the second pile, 4 in the third and 6 coins in the fourth.</p>
<b>Music</b>	<p>a) 36 women</p> <p>b) 16 girls</p> <p>c) 44 men and boys</p>
<b>Space</b>	<p>1. Arrowhead, Delta or Chevron</p> <p>2. a = acute, b = acute, c = acute &amp; d = right angle</p> <p>3. a = 26° (20° to 30°), b = 30° (25° to 35°), c = 39° (34° to 44°)</p> <p>4. An explanation that makes it clear that there are no parallel lines on the diagram as, two of the lines actually meet and the other pair do not stay the same distance apart.</p>

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World War 2	Day	Adults	Children	Total
	Monday	400	250	650
	Tuesday	256	354	610
	Wednesday	279	154	433
	Thursday	209	158	367
	Friday	499	402	901
	The type of method used will depend on your child's familiarity with different mental, jotting and formal methods. Hopefully Monday's total would be calculated mentally as would Tuesday's. Some children may also see how to calculate the missing number on Friday by adjusting the numbers given to them in the table.			