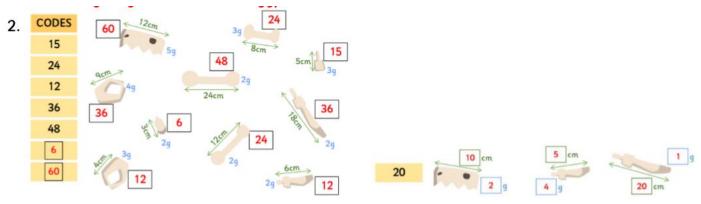
Reasoning and Problem Solving - Multiplication and Division answers

		•		•						
1.	Exhibit	Visitors per month	Time Spent in exhibit (minutes)	Weeks since exhibit opened.	Average Customer Score (out of 10)	Value score				
	Egyptians	27	9	56	7	1,701				
	Dinosaurs	39	8	89	3	936				
	Armouries	53	7	68	5	1,855				

Exhibit	Visitors last year						
Egyptians	297						
Dinosaurs	429						
Armouries	583						

Children's answers may vary but should show understanding of the meaning of the figures e.g. Egyptians has the lowest score for visitors, but also has a high positive feedback and value score, so they may recommend the Egyptians and Armouries exhibits continue.



- 3. A = £20.50; B = £25.68; C = £27.00; D = £23.20, so A and D meet the Director's limit. Price structure D will give the most profit to the museum.
- 4. Children's answers may vary from those shown.

 They should show accurate knowledge of factor pairs and commutative rule of multiplication.

		to 500E		2500BC to 2000BC		2000BC to 1500BC		1500BC to 1000BC			1000BC to 500BC				
Number of coins	50		24		30		36		63						
choice 1	2	x	25	4	x	6	10	x	3	12	x	3	9	x	7
choice 2	5	x	10	8	x	3	5	x	6	4	x	9	21	x	3
choice 3	25	x	2	2	x	12	15	x	2	3	x	12	7	x	9

5. $98 \div 7 = 14$ $84 \div 3 = 28$



- 7. Answers give children the chance to practice multiplying efficiently and estimating answers. Answers may vary widely but should amount to no more than £250.
- 8. St. Jude's: £123 x 5 = £615; £137 x 5 = £685; £234 x 10 = £2,340. £615 + £685 + £2,340 = £3,640 full cost.

Heath Manor: £123 x 3 = £369; £137 x 3 = £411; £234 x 6 = £1,404. £369 + £411 + £1,404 = £2,184 full cost.Oak Mount: £123 x 8 = £984; £137 x 8 = £1,096; £234 x 16 = £3,744. £984 + £1,096 + £3,744 = £5,824 full cost.Moorhil: £123 x 2 = £246; £137 x 2 = £274; £234 x 4 = £936. £246 + £274 + £936 = £1,456 full cost.

9. Egyptians: 81 visitor increase. Dinosaurs: 195 visitor increase. Armouries: 424 visitor increase.