

PROBLEM SOLVING THROUGH LOGIC

1. Late Library Returns:

Three apprentices had to pay fines on overdue books at the college library yesterday. From the clues given below, can you work out how much each had to pay, and uncover the title and the author of each apprentice's overdue book.

CLUES:

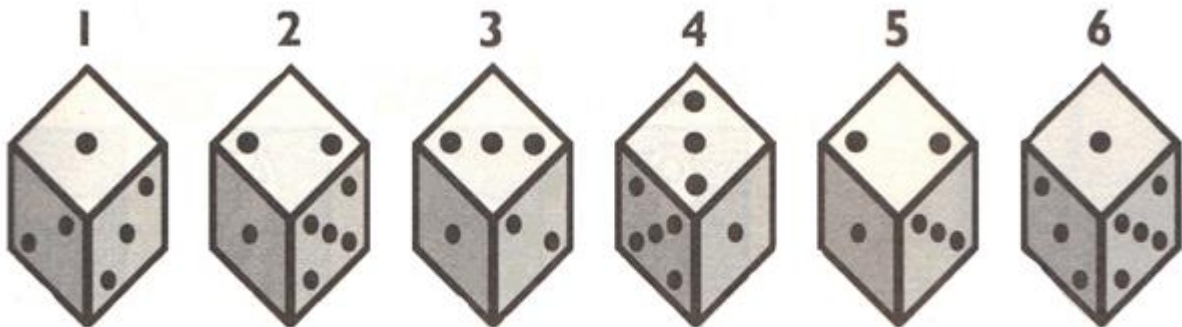
1. "Machining using a lathe" is not by Jane Swan
2. Robert Gordon who had not taken out James B. Smith's book had to pay a £3.00 fine
3. The apprentice who borrowed "The measure of success" by John Inch paid a smaller fine than Daisy Chain.

	£1.00	£2.00	£3.00	The Measure of success	Machining using a lathe	The cost of production	John Inch	James B Smith	Jane Swan
Daisy Chain									
David Jacobs									
Robert Gordon									
John Inch									
James B. Smith									
Jane Swan									
The measure of Success									
Machining using a lathe									
The cost of production									

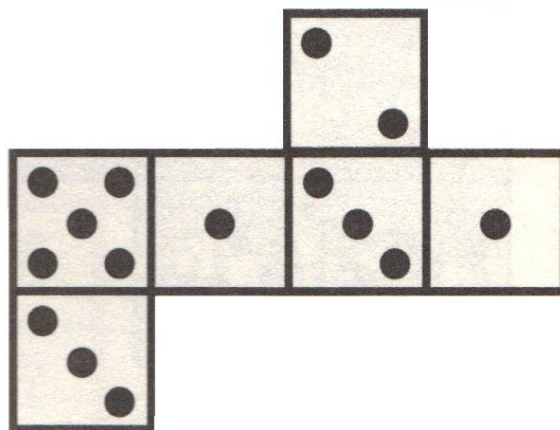
Borrower	Fine	Title	Author

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2. The Dice dilemma



Above are views of six non-standard six sided dice. Which, of the six sided dice above cannot be made from the following pattern shown below.



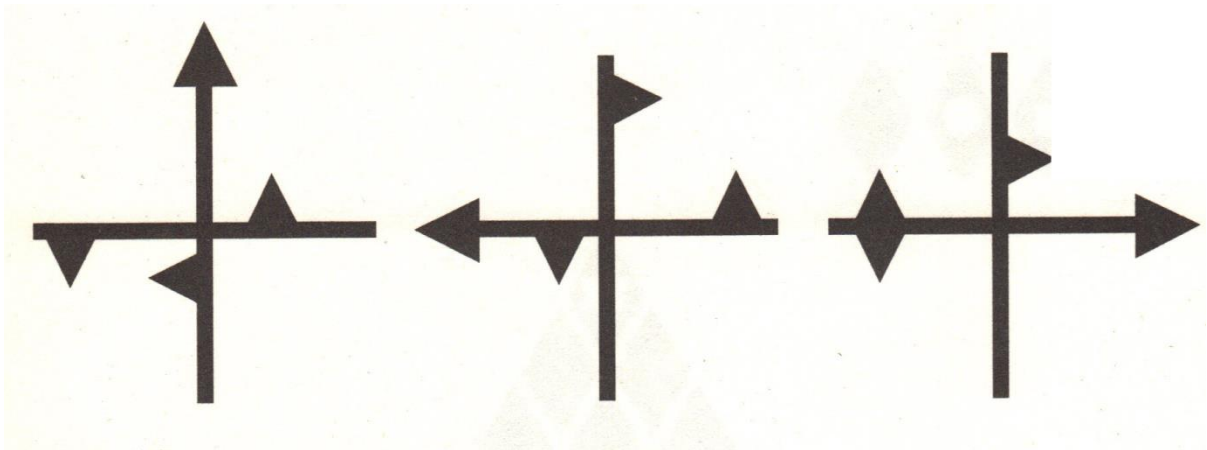
3. THE SIMPLE EQUATION

$$76 = 24$$

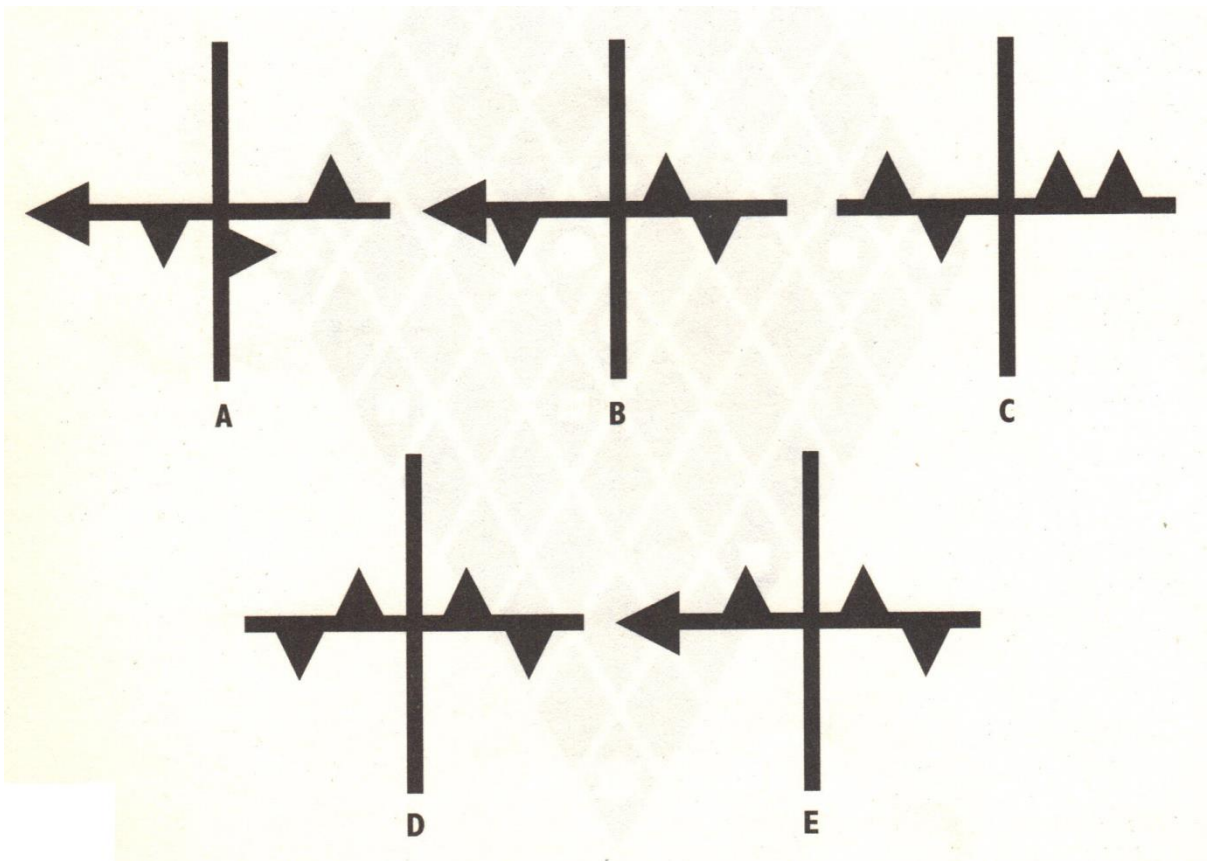
Correct the above equation so that it makes sense by freely moving the given four digits around but, you are not allowed to introduce any more mathematical symbols

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4. Tricky little triangles and lines



Look at the three shapes and state which option from the diagramme below continue the sequence A, B, C, D, or E



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5. The Time Served Apprentices

The 4 Apprentices have now finished their apprenticeship and are now fully qualified engineers ready to start their engineering career in the organisation they served their apprenticeship. They have all been informed where they are going to be posted and what job they are going to do and the time served apprentices are flying out of Edinburgh airport today to start their new jobs. From the clues given below can you work out the job each time served apprentice is going to do, say what time the flight departs and identify each of their destinations.

Clues:

1. The draughtsperson's flight is going to Rome, but will not be leaving at 13:00 hours
2. The Application engineer will not be flying to Paris, will be leaving Edinburgh airport two hours after Lesley Strachan
3. The 10:00 flight is to Athens
4. Michael Park will be aboard the plane for Venice
5. The Design Engineer who is not Sybil Blackbird will leave Edinburgh airport an hour before the Quality Engineer

	Quality Engineer	Draughtsperson	Design Engineer	Applications Engineer	10:00	11:00	12:00	13:00	Rome	Venice	Athens	Paris
James Bright												
Lesley Strachan												
Michael Park												
Sybil Blackbird												
Rome												
Venice												
Athens												
Paris												
10:00												
11:00												
12:00												
13:00												

Name	Job	Flight Time	Destination

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For Answers to above problems please goto :-

http://www.bordereta.com/Quizes/Problem_Solving/Problem_Solving_Answers.pdf