

gridlocks – can you unlock the grid?

Alloys

Before you answer the puzzles below fill in the table of four alloys using:

aeroplanes

solder

resists corrosion

alloy	mixture of:	use	property
steel	iron & carbon	cars	stronger than pure iron
	tin & lead	electrical connections	low melting point
duralumin	aluminium & copper		strong and low density
brass	copper & zinc	£1 coins	

Gridlock 1

Each row, column and 2 x 2 box contains information about the four alloys listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

alloy		mixture of:	
solder			iron & carbon
	aluminium & copper		brass
mixture of:		alloy	

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Gridlock 2

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

alloy		mixture of:	
	steel		copper & zinc
			iron & carbon
electrical connections			strong and low density
use			property

Gridlock 3

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

alloy		mixture of:	
solder			iron & carbon
			resists corrosion
aeroplanes			
use			property

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Alloys – answers

Before you answer the puzzles below fill in the table of four alloys using:

	aeroplanes	solder	resists corrosion
Alloy	mixture of:	use	property
steel	iron & carbon	cars	stronger than pure iron
solder	tin & lead	electrical connections	low melting point
duralumin	aluminium & copper	aeroplanes	strong and low density
brass	copper & zinc	£1 coins	resists corrosion

Puzzle 1

Each row, column and 2 x 2 box contains information about the four alloys listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

alloy		mixture of:	
solder	brass	aluminium & copper	iron & carbon
duralumin	steel	copper & zinc	tin & lead
iron & carbon	aluminium & copper	solder	brass
copper & zinc	tin & lead	steel	duralumin
mixture of:		alloy	

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Puzzle 2

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

alloy		mixture of:	
duralumin	steel	tin & lead	copper & zinc
brass	solder	aluminium & copper	iron & carbon
cars	aeroplanes	resists corrosion	low melting point
electrical connections	£1 coins	stronger than pure iron	strong and low density
use		property	

Puzzle 3

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

alloy		mixture of:	
solder	duralumin	copper & zinc	iron & carbon
brass	steel	tin & lead	aluminium & copper
cars	electrical connections	strong and low density	resists corrosion
aeroplanes	£1 coins	stronger than pure iron	low melting point
use		property	