

# gridlocks – can you unlock the grid?

## Crude oil

Before you answer the puzzles below fill in the table of fractions from crude oil using:

aeroplanes      diesel      engine oil      camping gas      roads

Fraction	Use
refinery gases	
gasoline	cars
naphtha	plastics, medicines and dyes
kerosene	aeroplanes
	lorries
lubricating oil	
fuel oil	ships
bitumen	

## Gridlock 1

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

fraction		uses	
refinery gases			aeroplanes
	kerosene		
		gasoline	naphtha
uses		fraction	

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## Gridlock 2

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

fraction		uses	
lubricating oil			
		roads	
		diesel	
	ships		
uses		fraction	

## Gridlock 3

You will need to identify which four fractions are in this puzzle.

fraction		uses	
	bitumen		aeroplanes
			roads
cars			diesel
uses		fraction	

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## Crude oil – answers

Before you answer the puzzles below fill in the table of fractions from crude oil using:

aeroplanes      diesel      engine oil      camping gas      roads

Fraction	Use
refinery gases	camping gas
gasoline	cars
naphtha	plastics, medicines and dyes
kerosene	aeroplanes
diesel	lorries
lubricating oil	engine oil
fuel oil	ships
bitumen	roads

## Puzzle 1 – answers

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

fraction		uses	
refinery gases	gasoline	plastics, medicines and dyes	aeroplanes
naphtha	kerosene	camping gas	cars
cars	plastics, medicines and dyes	kerosene	refinery gases
aeroplanes	camping gas	gasoline	naphtha
uses		name	

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## Puzzle 2 – answers

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

fraction		uses	
lubricating oil	bitumen	ships	lorries
fuel oil	diesel	roads	engine oil
roads	engine oil	diesel	fuel oil
lorries	ships	lubricating oil	bitumen
uses		name	

## Puzzle 3 – answers

You will need to identify which four fractions are in this puzzle.

fraction		uses	
diesel	bitumen	cars	aeroplanes
kerosene	gasoline	lorries	roads
roads	lorries	kerosene	gasoline
cars	aeroplanes	bitumen	diesel
uses		name	