

1. Run the following MDX query and show the results.

```
SELECT [Time].[Month].MEMBERS on ROWS,[Measures].[Quantity] on COLUMNS
FROM [SteelWheelsSales]
WHERE [Market].[Country].&[USA]
```

RESULTS:

	QUANTITYORDERED
All	35659
Apr	2168
Aug	3879
Dec	2815
Feb	2349
Jan	2436
Jul	2004
Jun	1729
Mar	2552
May	3008
Nov	7066
Oct	4163
Sep	1490
Unknown	(null)

2. In the result of the following MDX statement,

```
SELECT CrossJoin([OrderStatus].[Disputed],
[OrderStatus].[Resolved]], {[Measures].[Sales],
[Measures].[Quantity]}) ON COLUMNS,
{[Product].[Line].&[Classic Cars], [Product].[Line].&[Planes]} ON ROWS
FROM [SteelWheelsSales]
WHERE ([TIME].[2005])
```

Which one of the statements is correct?

	Disputed	Disputed	Resolved	Resolved
	TOTALPRICE	QUANTITYORDERED	TOTALPRICE	QUANTITYORDERED
Classic Cars	26012.87	174	19067.25	234
Planes	3843.84	63	26946.47	372

- ☐ default measures appear in the result
 - ☐ the COLUMNS axis only shows the Sales and Quantity measures.
 - ☐ **the COLUMNS axis is stacked with the [OrderStatus] dimension members ([Disputed] and [Resolved]) and the sales and quantity measures.**
 - ☐ the COLUMNS axis is stacked with all [OrderStatus] dimension members and the sales and quantity measures.
3. A MDX query without slicers was made against SteelWheelsSales OLAP cube and the following results were shown. Write down the MDX query.

Results:

	All	2003	2004	2005
	Sales	Sales	Sales	Sales
All	1.06E+07	3677384	4987740	1980825
Apr	793286.6	201609.5	206148.1	385528.9
Aug	659310.5	197809.3	461501.2	(null)
Dec	778820.6	303494.2	475326.5	(null)
Feb	817721	140836.2	318698.6	358186.3
Jan	785874.5	129753.6	316577.4	339543.5
Jul	588542.1	225486.2	363055.8	(null)
Jun	538686.8	170559.3	368127.4	(null)
Mar	830178.5	174504.9	242143.1	413530.5
May	950147.8	192673.1	273438.4	484036.3
Nov	2175769	1086721	1089048	(null)
Oct	1142888	589963.9	552924.3	(null)

Sep 584724.1 263973.3 320750.8 (null)

MDX:

```
SELECT NON EMPTY ({[DIM TIME].[YEAR ID], [DIM TIME].[YEAR ID].[YEAR ID]},  
[Measures].[TOTALPRICE]) ON COLUMNS,  
NON EMPTY {[DIM TIME].[MONTH NAME],[DIM TIME].[MONTH NAME].[MONTH NAME]} ON ROWS  
FROM [SteelWheelsSales]
```

4. In an MDX statement, a slicer is specified in which clause

- SELECT
- Nested SELECT statements
- **WHERE**
- FROM

Note: The Where clause is only used within a Select clause, so the answer should technically be both...

5. What statements are true about axis and slicer dimensions?

- ☐ **Axis dimensions are shown in the row and column headings of the cube result.**
- ☐ **A dimension can be used as both an axis and a slicer.**
- ☐ Slicer dimensions are mandatory.
- ☐ **Slicer dimensions do not appear in the row and column headings of the cube result.**
- ☐ Axis is a synonym for slicer.

6. Given the following MDX query

```
SELECT CrossJoin([OrderStatus].[Disputed],
[OrderStatus].[Resolved]], {[Measures].[Sales],
[Measures].[Quantity]}) ON COLUMNS,
{[Product].[Line].&[Classic Cars], [Product].[Line].&[Planes]} ON ROWS
FROM [SteelWheelsSales]
```

- 1) Adding the [Time].[Year].[Year] dimension to the Rows axis, getting rid of the empty rows will null values, and displaying the results below

		Disputed	Disputed	Resolved	Resolved
		TOTALPRICE	QUANTITYORDERED	TOTALPRICE	QUANTITYORDERED
Classic Cars	2003	(null)	(null)	6732.09	60
Classic Cars	2005	26012.87	174	19067.25	234
Planes 2004	(null)	(null)	7586.45	70	
Planes 2005	3843.84	63	26946.47	372	

- 2) Adding the [Time].[Year].[Year] dimension to the Column axis, getting rid of the empty columns will null values, and displaying the results below

	Disputed	Disputed	Resolved	Resolved	Resolved	Resolved
	Resolved	Resolved				
	TOTALPRICE	QUANTITYORDERED	TOTALPRICE	TOTALPRICE	TOTALPRICE	
	QUANTITYORDERED	QUANTITYORDERED	QUANTITYORDERED			
	2005	2005	2003	2004	2005	2003
	2005	2003	2004	2005	2003	2004
Classic Cars	26012.87	174	6732.09	(null)	19067.25	60
Planes	3843.84	63	(null)	7586.45	26946.47	(null)
						70
						372

7. If no measures appear in the SELECT clause of an MDX statement,
- the statement is not valid.
 - the user is prompted for a measure name.
 - a WHERE clause is required.
 - **the default measure is shown in the cells.**