

Spreadsheet Title: Example of Database-Enabled Spreadsheet
ver. 0.01 (© DesignSpreadsheets.com 2005-2008)
Last Revision Date: 11/22/2005

All blue fields are used for input.

by DesignSpreadsheets.com
<http://www.designspreadsheets.com/database-spreadsheet>
email: info@designspreadsheets.com

Project
Job No.
Subject
Sheet No.
Made By
Date Made
Checked By
Date Checked

Sample Spreadsheet with Database Capabilities
Job xy
Geometric Properties of a Rectangle
xy
admin
11/22/2005
admin
11/22/2005

Comments

9/16/2005 Created by BridgeArt.net

Spreadsheet Instructions

The purpose of this spreadsheet is to illustrate what is a "database-enabled" spreadsheet developed by DesignSpreadsheets.com. For engineering calculations which are typically repeated for different sets of input data, database spreadsheet enables to keep all different sets of input data in a single file. This is much better solution than to create multiple copies of the same spreadsheet file which can result in a maintenance nightmare. Suffice it to say that if an error is discovered, it would need to be fixed in EACH copy of the spreadsheet - database-enabled spreadsheet eliminates this.

DesignSpreadsheets.com has developed a simple method by which any spreadsheet can be converted to a datababase-enabled spreadsheet.

Use control the "Control Panel" tab to control the set of input data and the "Calculations" tab to perform the actual calculation.

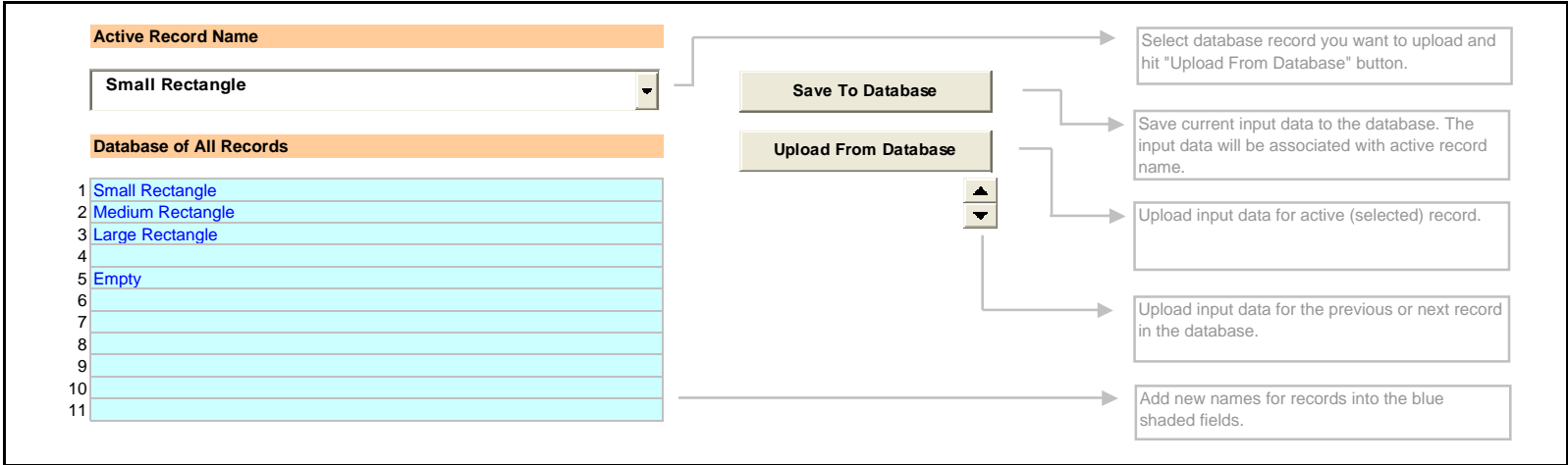
Macros must be enabled to obtain full functionality of the spreadsheet.

Color coding:

[CYAN shading] User's input.
[LIGHT BROWN shading] Headings.

Spreadsheet Revision History

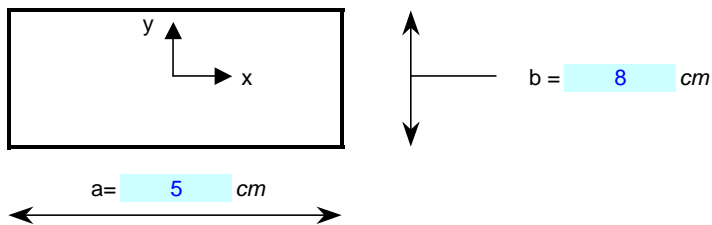
9/22/2005 [ver. 0.01] First BridgeArt.net version.



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|---|---|--------------------------|
| Project: Sample Spreadsheet with Database Capabilities | Made By: <i>admin</i> Date: <i>11/22/2005</i> | Job No: <i>Job xy</i> |
| Subject: <i>Geometric Properties of a Rectangle</i> | Checked By: <i>admin</i> Date: <i>11/22/2005</i> | Sheet No: <i>xy</i> |

Small Rectangle

Enter Rectangle Dimensions:



Calculated Properties:

| | | |
|------------------------|--------------------|---|
| area = $ab =$ | 40 cm^2 | rectangle area |
| perimeter = $2(a+b) =$ | 26 cm | rectangle perimeter |
| $I_x = (1/12)ab^3 =$ | 213 cm^4 | moment of inertia about horizontal axis |
| $I_y = (1/12)ba^3 =$ | 83 cm^4 | moment of inertia about vertical axis |

Comments:

This calculation was used to determine geometric properties of a SMALL size rectangle.