

FITTINGS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

The 'Fittings Exercise' can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet.

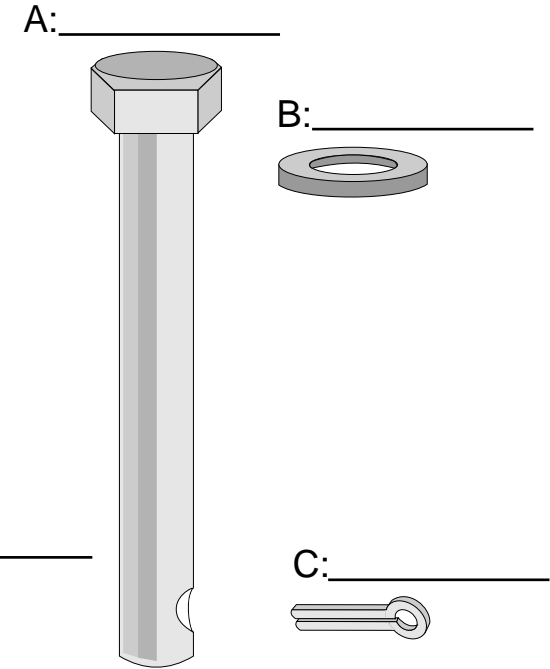
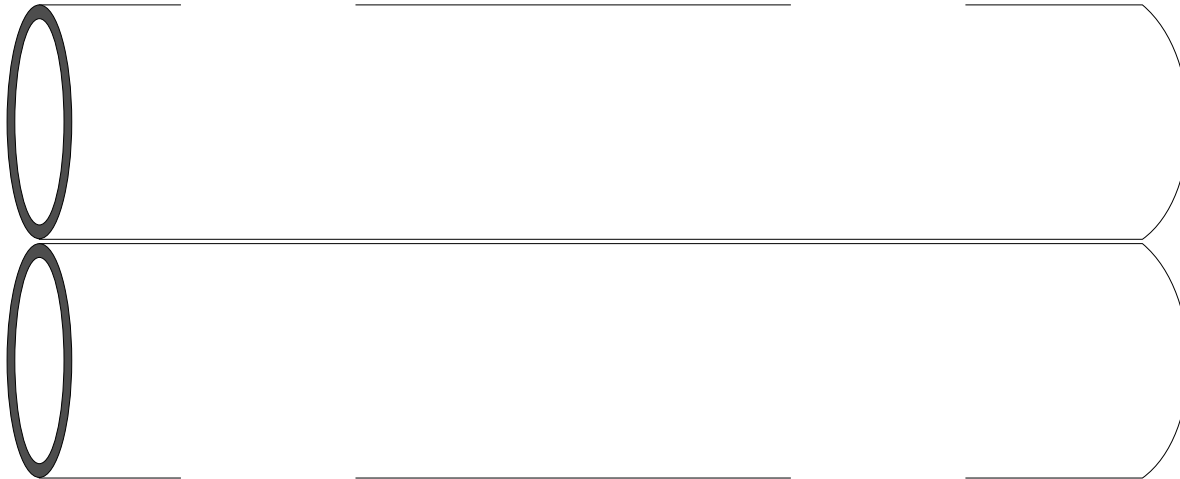
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FITTINGS AND FIXINGS

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The two tubes seen below are to be fixed together using two sets of the four fittings A, B, C and D.

1. Name/label the four fittings.
2. Draw the fittings in position on the incomplete drawing below, fixing the two tubes together.



3. A simple steel tube trolley is to be sold as a flat pack. What are the advantages of using the fittings shown above?

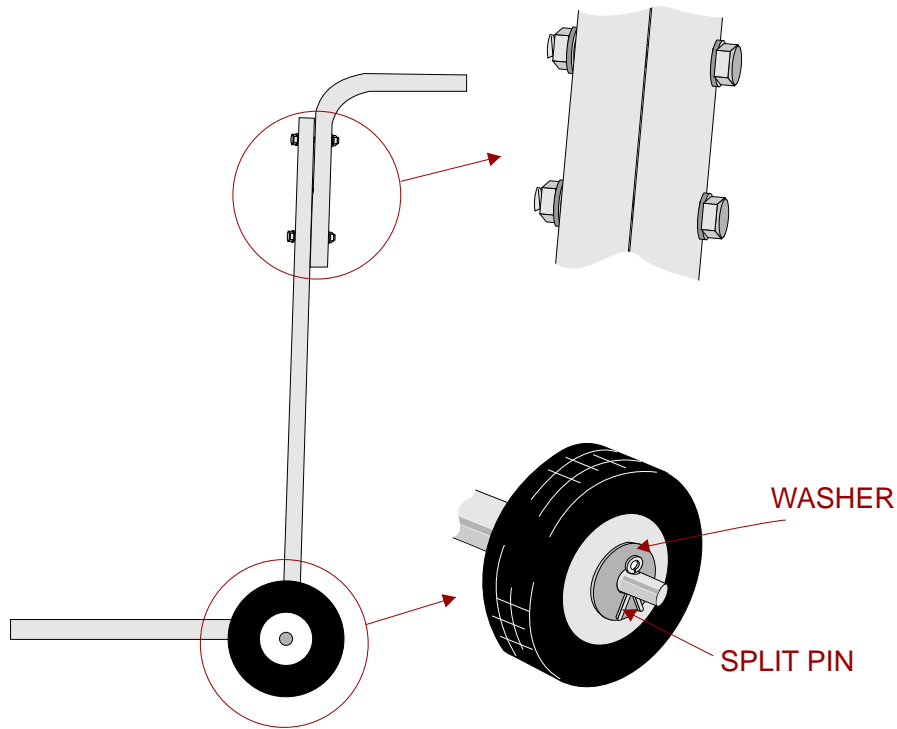
3. Selling flat packed furniture has many advantages to a manufacturer/retailer/customer. What are they?

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The example shown below is a typical light-weight trolley. It is delivered to the customer in a flat pack and is assembled with a few simple tools. These include simple spanners that are also included in the pack.

4. In the space opposite draw a diagram showing the trolley assembled using different types of fittings and fastenings than the ones shown below.



YOUR DIAGRAM

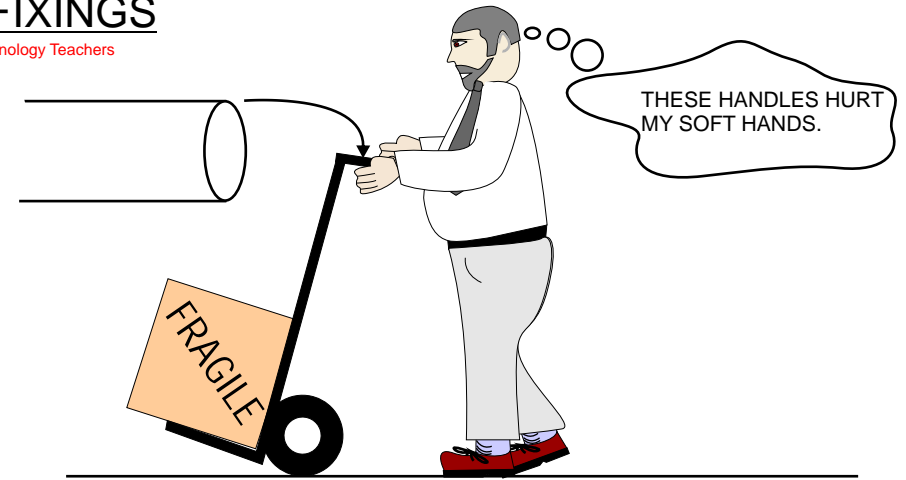
5. In your opinion, which fastenings are the most appropriate for the trolley? Why?

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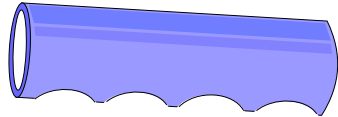
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6. The handles on the trolley shown above are plain tube and are uncomfortable to use.

Produce two ergonomically designed handles in the spaces below - add explanatory notes. Each handle design should fit the average hand comfortably (see example).



EXAMPLE



ERGONOMICALLY DESIGNED
TO FIT THE HAND COMFORTABLY

DESIGN ONE

NOTES

DESIGN TWO

NOTES
