



# Pacific Earthquake Engineering Research

## K-12 Outreach Program Cost Calculations



While it is important to keep buildings safe in an earthquake, it is also important to make them affordable. Once your structure is complete your group will need to count how many pieces are used and determine how much your building cost to build. Use the table below to help calculate the total building cost.

Building Material	Cost Per Piece
Yellow Pieces	\$10
Red Pieces	\$20
Grey Pieces	\$30
Joint Pieces	\$2

Here is an example of how to calculate the cost of a building. If you had a building with 20 Reds, 4 Greys, 8 yellows, and 30 joints then the total cost of your building is:

Red Pieces	Grey Pieces	Yellow Pieces	Joints	Total
\$20	\$30	\$10	\$2	\$400
<u>x 20</u>	<u>x 4</u>	<u>x 8</u>	<u>x 30</u>	\$120
\$400	\$120	\$80	\$60	\$80
				<u>+ \$60</u>
				<b>\$660</b>

Now figure out how much your building cost. Use the table below and fill in the blanks to help your calculations:

Red Pieces	Grey Pieces	Yellow Pieces	Joints	Total
\$20	\$30	\$10	\$2	\$ _____
<u>X _____</u>	<u>X _____</u>	<u>X _____</u>	<u>X _____</u>	\$ _____
				\$ _____
				<u>+\$ _____</u>