

GOAL: Use statistics to learn about home prices in various cities.

Find the cost per square foot of each house, **rounded to the nearest cent**. You may use a **calculator** to find the cost per square foot.

AGGIEVILLE				BLUE DEVIL LAND			
House	Cost	Square Feet	Cost per sq. ft.	House	Cost	Square Feet	Cost per sq. ft.
1.	\$176,500	2,450	\$72.04	8.	\$158,900	2,300	
2.	\$108,675	1,725		9.	\$158,695	1,925	
3.	\$112,365	1,870		10.	\$110,995	1,970	
4.	\$143,950	2,200		11.	\$121,490	2,090	
5.	\$106,900	1,452		12.	\$124,900	1,645	
6.	\$154,590	2,160		13.	\$157,990	2,430	
7.	\$151,990	2,055		14.	\$122,975	1,825	
15.	What is the median cost per square foot in Aggieville?						
16.	What is the median cost per square foot in Blue Devil Land?						
17.	Which city has the lower median cost per square foot?						
18.	What is the difference between the two medians?						
19.	Which house is the least expensive per square foot?						
20.	Which house is the most expensive per square foot?						

21.	A. Calculate the mean and the median and range of the five homes listed below.	Mean =
	B. Which of the numbers, mean or median, is closer to the “typical” price of these homes?	Median =
	C. Why?	Range =
	D. Why are the mean and median so different?	
	\$135,000 \$3,375,000 \$99,950 \$126,900 \$119,550	B.
		C.
		D.

Grapevine Real Estate Listings

Below are 12 single-family homes that were for sale a few years ago in Grapevine. Single family means it is a home that one family would live in. An apartment would be an example of a multi-family home. Homes can have half a bath. A half bath is a bathroom without a bathtub or shower.

Find the cost per square foot of each house, **rounded to the nearest cent**. You may use a **calculator** to find the cost per square foot.

Address	Cost	Square Feet	Cost per square foot	Bed-rooms	Bath-rooms	Age
3826 Shady Meadow	\$262,000	3042 sq. ft.		5	4	15 years
3105 Coveside	\$289,900	3198 sq. ft.		3	2.5	4 years
3312 Marsh	\$369,900	4031 sq. ft.		4	3.5	11 years
4319 Windswept	\$201,000	2462 sq. ft.		4	2.5	13 years
2825 Panhandle	\$143,500	1508 sq. ft.		3	2	22 years
1408 Clearwater	\$216,500	2317 sq. ft.		3	3	3 years
2662 Pinehurst	\$232,000	2402 sq. ft.		4	2	3 years
3430 Spring Willow	\$174,900	2210 sq. ft.		3	2	18 years
2702 Yorkshire	\$249,900	2971 sq. ft.		5	3	15 years
2715 Cobblestone	\$268,990	2942 sq. ft.		4	3	0 years
2717 Cobblestone	\$257,990	2839 sq. ft.		4	2.5	0 years
2719 Cobblestone	\$283,990	3116 sq. ft.		4	3.5	0 years

Use your data to now calculate the following items. Round according to the parentheses.

	Cost (dollar)	Square Feet (whole number)	Cost per square foot (cent)	Bedrooms (tenth)	Bathrooms (tenth)	Age (tenth)
Lower Quartile						
Median						
Upper Quartile						
Range						

On a separate sheet of paper draw two box plots: one for cost and one for square feet