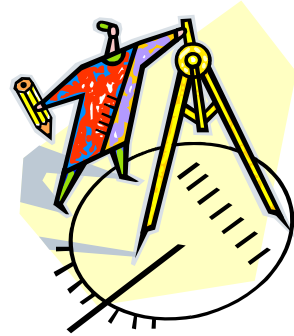


# Project Mathematician



You are the bean counter and the mathematician! All projects have someone who keeps track of the numbers and that is your role. However, the architects need you to check their math on some of the measurements they have taken, so off we go!

**First, your role as bean counter!** How many and how much? What numbers and statistics can you find that tell the story of the Cathedral? Some hints to get you started:

Cost of the entire Cathedral restoration \_\_\_\_\_

Cost of the seismic retrofit \_\_\_\_\_

Length of time to plan \_\_\_\_\_ the restoration. Length of time the Cathedral was closed \_\_\_\_\_

**And now... a Cathedral math problem:**

The crucifix is \_\_\_\_\_ feet high and the crown is 14 feet in diameter. Together they weigh 2,000 pounds. What is the circumference of the crown? (Hint:  $\pi = 3.14$ )

**Back to counting beans:**

The original cost of building the Cathedral from 1886-1889 was \_\_\_\_\_ in today's money. There are over \_\_\_\_\_ works of art painted by Evergreen Studios in the Cathedral.

### Math terms used in the Cathedral:

pendentive (four pillars holding the dome): \_\_\_\_\_

diameter (crown, oculus, roundels): \_\_\_\_\_

circumference (crown of thorns): \_\_\_\_\_

octagon (baptismal font): \_\_\_\_\_

Any other math word that you have heard or you see in the Cathedral? \_\_\_\_\_

### But wait...more math in the Cathedral:

If the scaffolding cost \$1.1 million and used both inside and outside the Cathedral for 20 months, how much did the scaffolding cost each month? Bonus: How much did the scaffolding cost each day in June 2005?

### Statistics and numbers (add four more to the list!):

1. Number of spires:
- 2.
- 3.
- 4.
- 5.

