



Activities reinforce Colorado Academic Standards using this month's e-editions of the Denver Post.

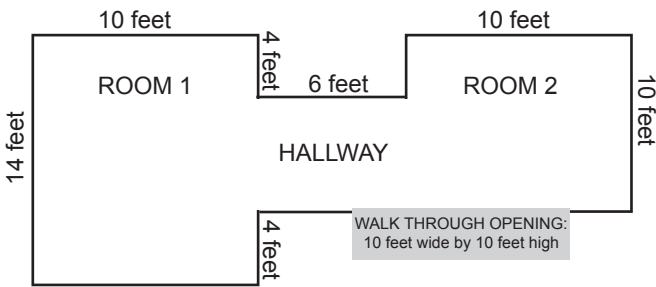
**ACTIVITY** Article: **Rediscovering the beauty of plastered walls**, Sat., Feb. 5, Inside and Out, p. 1D

**1**

Read the article about plastering walls. It explains how plastering differs from drywall and paint.

Applying plaster requires knowing the square footage of the walls that will be plastered. The article says the lowest price for plastering is \$1.25 per square foot and the price can go higher depending on the type of plaster selected.

- The rooms shown here will be plastered. They are interior rooms with no windows. The ceilings are 12 feet high.



- When determining area of the rooms, the resulting numbers will be what type of measurement?
  - linear feet
  - square feet
  - quarts
  - inches
- The ceiling will be plastered. Determine the square footage of the following to find the area of the ceiling:
  - Room 1: \_\_\_\_\_
  - Hallway: \_\_\_\_\_
  - Room 2: \_\_\_\_\_
  - Ceiling: \_\_\_\_\_

- What will be the cost, at \$1.25 per square foot, to plaster the ceiling?
  - \$175
  - \$276
  - \$345
  - \$552
- Determine the square footage of the walls in Room 1. Which of the following will provide the answer?
  - $(14 \times 12) + 2(10 \times 12) + (4 \times 12) = 456$
  - $(14 + 10 + 6) \times 12 = 360$
  - $(14 + 10 + 10 + 4 + 4) \times 12 = 504$
  - 720

- Determine the square footage of the walls in the Hallway and Room 2.
  - \_\_\_\_\_

- Add the square foot measurements of Room 1, Hallway, Room 2 and Ceiling to find the total square footage of area to be plastered.
  - \_\_\_\_\_

- Using the \$1.25 per square foot cost, what will plastering these rooms cost?
  - \_\_\_\_\_

- If the cost per square foot is \$4.50 because of using different materials, what will plastering these rooms cost?
  - \_\_\_\_\_

**Standard 1** Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

**Benchmark 1** Demonstrate meanings for whole numbers, and commonly-used fractions and decimals (for example, 1/3, 3/4, 0.5, 0.75), and representing equivalent forms of the same number through the use of physical models, drawings, calculators, and computers.

**Standard 1** Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

**Benchmark 2** Read and write whole numbers and know place-value concepts and numeration through their relationships to counting, ordering, and grouping.



A writing assignment available at [www.DenverPostEducation.com](http://www.DenverPostEducation.com)

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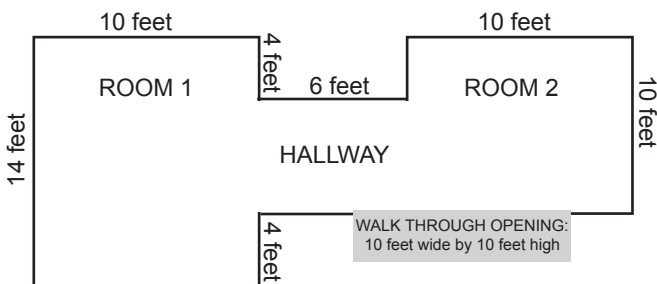
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Applying plaster requires knowing the square footage of the walls that will be plastered. The article says the lowest price for plastering is \$1.25 per square foot and the price can go higher depending on the type of plaster selected.

- The rooms shown here will be plastered. They are interior rooms with no windows. The ceilings are 12 feet high.



- When determining area of the rooms, the resulting numbers will be what type of measurement?
  - o linear feet
  - o quarts
  - o square feet
  - o inches
- The ceiling will be plastered. Determine the square footage of the following to find the area of the ceiling:
  - o Room 1:  $14 \times 10 = 140 \text{ sq. ft.}$
  - o Hallway:  $14 - 8 = 6 \text{ ft wide; } 6 \times 6 = 36 \text{ sq. ft.}$
  - o Room 2:  $10 \times 10 = 100 \text{ sq. ft.}$
  - o Ceiling:  $140 + 36 + 100 = 276 \text{ sq. ft.}$

- What will be the cost, at \$1.25 per square foot, to plaster the ceiling?
  - o \$175
  - o \$276
  - o \$345
  - o \$552

- Determine the square footage of the walls in Room 1. Which of the following will provide the answer?
  - o  $(14 \times 12) + 2(10 \times 12) + (4 \times 12) = 456$
  - o  $(14 + 10 + 6) \times 12 = 360$
  - o  $(14 + 10 + 10 + 4 + 4) \times 12 = 504$
  - o 720

- Determine the square footage of the walls in the Hallway and Room 2.
  - o  $[(6 + 10 + 10 + 16) \times 12] - (10 \times 10) = 404 \text{ sq. ft.}$

- Add the square foot measurements of Room 1, Hallway, Room 2 and Ceiling to find the total square footage of area to be plastered.
  - o  $504 + 404 + 276 = 1,184 \text{ sq. ft.}$

- Using the \$1.25 per square foot cost, what will plastering these rooms cost?
  - o  $1,184 \text{ sq. ft.} \times \$1.25 = \$1,480$

- If the cost per square foot is \$4.50 because of using different materials, what will plastering these rooms cost?
  - o  $1,184 \text{ sq. ft.} \times \$4.50 = \$5,328$

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