Teacher Answer Key

Case Study

1. The reading warns that a sofa someone calls seven feet is often eighty-four inches plus arms, so remembered dimensions are wrong surprisingly often. At quarter-inch scale a four-inch error shifts the paper template, and in the real room it can be the difference between a walkway that clears and one that does not.

2. Circulation space is not leftover space, and paths connecting doorways to activity areas need real width, commonly thirty-six inches for a major walkway. If furniture is placed first and paths are whatever remains, the result is a room people must navigate sideways, which is why the paths are protected first.

Multiple Choice

1. A

2. B

3. C

Matching

1-B, 2-C, 3-E, 4-A, 5-D

Fill-in-the-Blank

1) 36, 2) one-quarter, 3) work (or: service, work or service)

Short Answer (Sample Responses)

Q1: Rearranging a two-dimensional room takes seconds while rearranging an actual room takes an afternoon and sometimes a second person. Testing on paper is free, so designers do nearly all arranging on a plan first and only move real furniture once the arrangement already works.

Q2: Plans are frequently photocopied or printed smaller than their stated scale, which changes the physical size of the drawing without changing the labeled dimensions. Measuring such a copy with a ruler produces wrong numbers, so the written dimensions must be trusted over the drawing's apparent size.

Q3: People experience the symptom rather than the cause, describing the house as awkward without identifying why. The real defect is that two activities needing to be near each other are not, such as a dining room far from the kitchen, so the annoyance repeats daily and never gets named.