

Q: What is the **length** of the longest dimension of the **bed**?



(a) Baseline

No QA-RP Pretraining
Plain Reasoning

Training Strategy

Question-Answer

Question

MLLM



1.1

(b) SpatialSpeak (Ours)

Training Strategy

QA-RP
Pretraining

CoT-VC
Finetuning

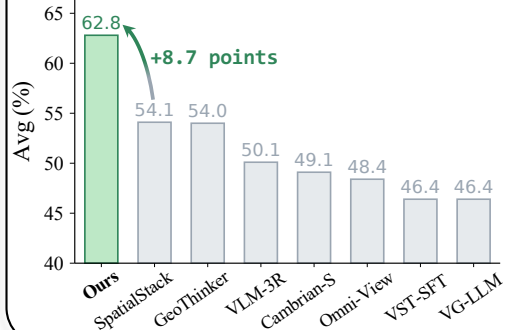
Question

MLLM



bed: center = (0.5, 0.3, 1.6) m,
dimensions = 2.1 × 1.8 × 1.2 m
Longest dimension = 2.1 m
<reliability: HIGH>
Final answer: 2.1

Performance Comparison



bed: center = (0.5, 0.3, 1.6) m ,
dimensions = 2.1 × 1.8 × 1.2 m

