Pathos Radiology Center (PRC) performs X-rays, ultrasounds, computer tomography (CT) scans, and magnetic resonance imaging (MRI). PRC has developed a reputation as a top radiology center in the state. PRC has achieved this status because it constantly reexamines its processes and procedures. PRC has been using a single, facility wide overhead allocation rate. The vice president of finance believes that PRC can make better process improvements if it uses more disaggregated cost information. She says, "We have state-of-the-art medical imaging technology. Can't we have state-of-the-art accounting technology?"

	X-rays	Ultrasound	CT Scan	MRI	Total
Technician labor	\$ 62,000	\$101,000	\$155,000	\$ 103,000	\$ 421,000
Depreciation	42,240	256,000	424,960	876,800	1,600,000
Materials	22,600	16,400	23,600	31,500	94,100
Administration					20,000
Maintenance					250,000
Sanitation					252,500
Utilities					
	<u>\$126,840</u>	<u>\$373,400</u>	<u>\$603,560</u>	<u>\$1,011,300</u>	<u>151,100</u> <u>\$2,788,700</u>
Number of procedures	3,842	4,352	2,924	2,482	
Minutes to clean after	5	5	15	35	
each procedure Minutes for each procedure	5	15	25	40	

Pathos Radiology Center Budgeted Information for the Year Ended May 31, 2022

RRC operates at capacity. The proposed allocation bases for overhead are:

Administration	Number of procedures
Maintenance (including parts)	Capital cost of the equipment (use Depreciation)
Sanitation	Total cleaning minutes
Utilities	Total procedure minutes

- 1. Calculate the budgeted cost per service for X-rays, ultrasounds, CT scans, and MRI using direct technician labor costs as the allocation basis.
- 2. Calculate the budgeted cost per service of X-rays, ultrasounds, CT scans, and MRI if PRC allocated overhead costs using activity-based costing.
- 3. Evaluate the differences between the two costing models and assess the value of activity-based-costing for management profitability analysis and decision making.
- 4. Explain how the disaggregation of information could be helpful to PRC's intention to continuously improve its services.