

Connecticut Academic Performance Test (CAPT)

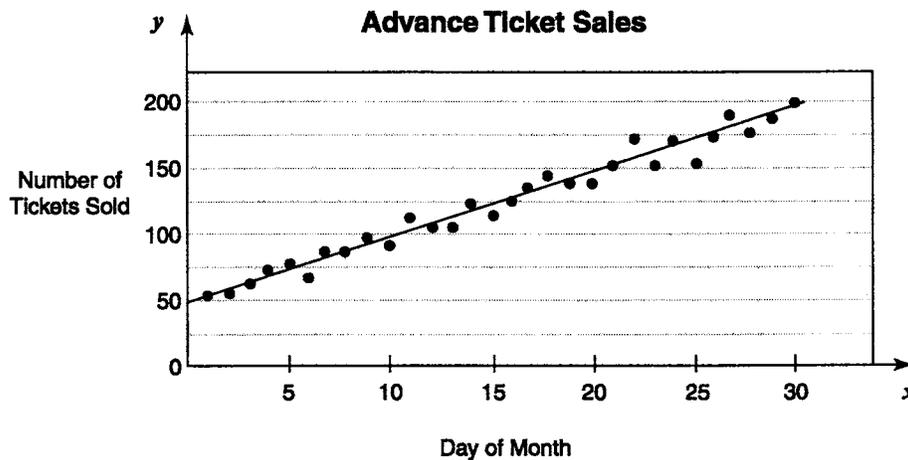
Sample Open-Ended Item

Title Advance Tickets Sold

ITEM:

Advance Tickets Sold

2. The scatterplot below shows the number of advance tickets sold each day for a month for a new musical coming to the Bushnell Theater in Hartford.



The line of best fit has been drawn on the scatterplot. Write an equation that relates x , the day of the month to y , the number of tickets sold according to the line of best fit.

Explain what the numbers in your equation mean in terms of the tickets sold.

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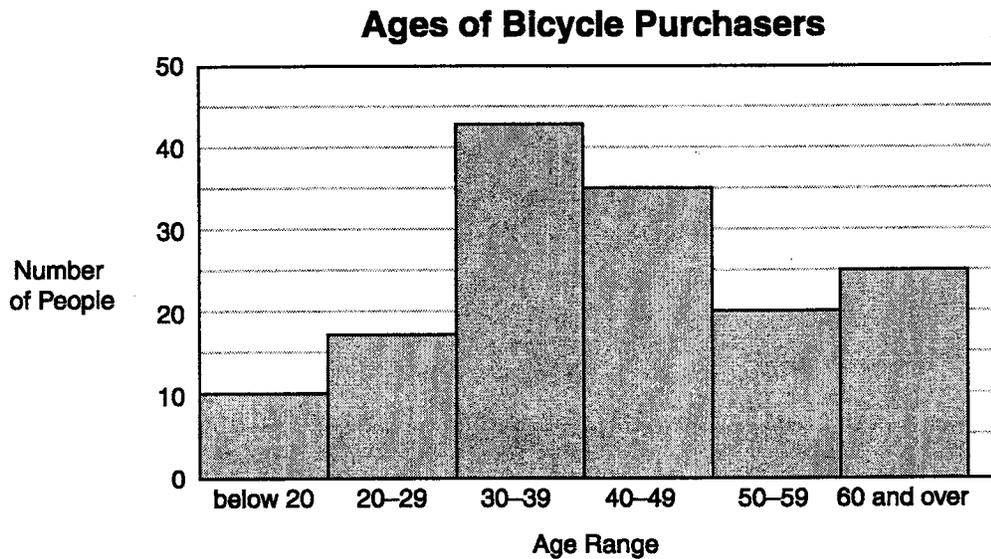
Sample Open-Ended Item

Title Bicycle Purchasers

ITEM:

Bicycle Purchasers

1. A bicycle shop made this histogram to show the ages of people who bought bicycles one month.



What is a reasonable estimate of the MEDIAN age of the bicycle purchasers shown in the graph? Show or explain how you determined your answer.

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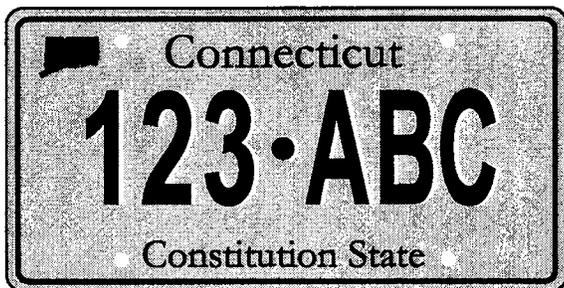
Sample Open-Ended Item

Title Connecticut License Plates

ITEM:

2. Connecticut License Plates

Most new Connecticut license plates now consist of a three-digit number followed by three uppercase letters. The license plates issued in Connecticut from 1976–1978 consisted of 2 letters followed by 4 numbers.



NEW



OLD

If the numerical part of either plate never begins with zero, how many more of these plates are available now than were available under the old system? Show or explain how you got your answer.

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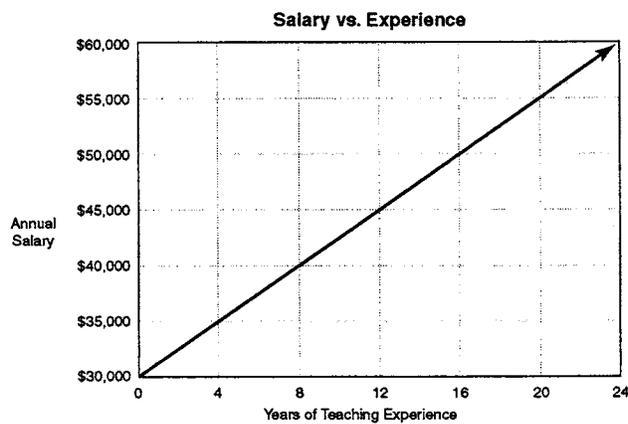
Sample Open-Ended Item

Title Teaching

ITEM:

Teaching

1. The graph shows the relationship between years of teaching experience and annual salary for teachers in one school district.



Write an equation showing the relationship between y , the annual salary in dollars, and x , the years of teaching experience.

Explain what the numbers in your equation mean in terms of annual salary.

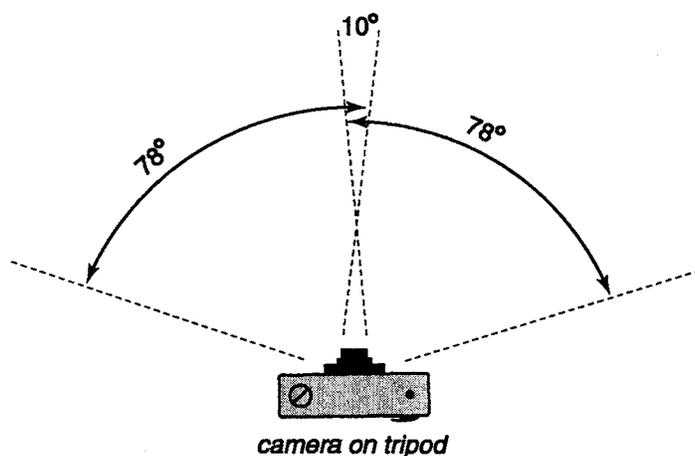
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Sample Grid Item

Title Tripod

ITEM:

10. Julia is taking pictures with a digital camera on a tripod. She plans to make a 360° panorama using a photo software application. The lens on her camera allows her to take pictures that will measure 78° , as shown.



If she takes the pictures with a 10° overlap, how many pictures will need to be taken to make a 360° panorama?

	0		0					0	
	1		1					1	
	2		2					2	
	3		3					3	
	4		4					4	
	5		5					5	
	6		6					6	
	7		7					7	
	8		8					8	
	9		9					9	

