Timed Extended Construction Response (ECR) Task—Grade 7 December

Name: \_\_\_\_\_

Date: \_\_\_\_\_

of

A company sells small and large photo books.
Each page of a small photo book costs the same.
The table shows the relationship between the number
pages in a small photo book and the total cost of the
photo book.

Small Photo Book			
Number of Pages	Total Cost (\$)		
20	30		
32	48		
	57		

## PART A

What is the cost per page for a small photo book? Enter your answer in the box.



## PART B

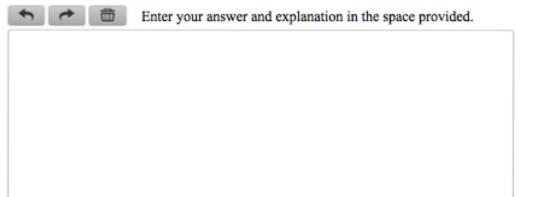
How many pages are in a small photo book that costs \$57? Show or explain how you determined your answer.

<b>*</b>	Enter your answer and explanation in the space provided.

## PART C

Each page of a large photo book costs 30% more than each page of a small photo book.

What is the cost for a large photo book with 35 pages? Show or explain how you determined your answer.



## ANSWER KEY

Rubric Part A			
Score	Description		
1	<ul> <li>Student response includes the following element.</li> <li>Computation component = 1 point         <ul> <li>The student provides a response of 1.50 or equivalent</li> </ul> </li> </ul>		
0	Student response is incorrect or irrelevant.		
	Rubric Part B		
Score	Description		
2	Student response includes each of the following 2 elements.		
	<ul> <li>Computation component = 1 point         <ul> <li>The student provides a response of 38 pages</li> <li>Modeling component = 1 point                 <ul></ul></li></ul></li></ul>		
	<ul> <li>pages for a small photo book when the answer is based on the incorrect price per page from Part A.</li> <li>The student may receive a modeling point for applying a correct strategy to find the number of pages for a small photo book based on an incorrect price per page.</li> </ul>		
1	Student response includes 1 of the above elements.		
0	Student response is incorrect or irrelevant.		
	Rubric Part C		
Score	Description		
2	<ul> <li>Student response includes each of the following 3 elements.</li> <li>Computation component = 1 point <ul> <li>The student determines a correct cost of \$68.25.</li> </ul> </li> <li>Modeling component = 1 point <ul> <li>The student provides a correct modeling process to determine the cost per page for a large photo book.</li> </ul> </li> <li>Modeling component = 1 point <ul> <li>The student provides a correct modeling process to determine the cost per page for a large photo book.</li> </ul> </li> <li>Modeling component = 1 point <ul> <li>The student provides a correct modeling process to determine the cost for a large photo book with 35 pages.</li> </ul> </li> <li>Sample Student Response: <ul> <li>"The cost per page for a large photo book is 30% more than the cost per page of a small photo book. So, the cost per page is \$1.50 x 1.3 = \$1.95."</li> <li>"The cost for a large photo book with 35 pages is 35 x \$1.95 = \$68.25."</li> </ul> </li> </ul>		

	Notes:
	<ul> <li>The student may receive a computation point for calculating the cost of a large photo book when the answer is based on the incorrect price per page for a small photo book from Part A.</li> <li>The student may receive a modeling point for applying a correct strategy to find the price per page for a large photo book based on an incorrect price per page for the small photo book.</li> <li>The student may receive a modeling point for applying a correct strategy to find the total cost for a large photo book based on an incorrect price per</li> </ul>
	<ul> <li>page.</li> <li>Further Notes: <ul> <li>The student may solve these using alternate methods and receive computation and modeling points for correct computations and modeling processes.</li> <li>The student may receive a combined total of 3 points if the modeling processes are correct but the student makes one or more computational errors in Parts B and C resulting in incorrect answers or an incorrect conclusion.</li> </ul> </li> <li>The student may receive up to a total of 3 points if he or she computes the student may receive up to a total of 3 points.</li> </ul>
	• The student may receive up to a total of 3 points if he or she computes the correct answers but shows no work or insufficient work to indicate correct modeling processes.
	• The student cannot receive more than 2 points for modeling if the explanations, while sufficient to indicate that the student had correct reasoning, contain nonsense statements.
1	Student response includes 2 of the above elements.
0	Student response includes 1 of the above elements or is incorrect or irrelevant

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