



Math  
Released Item 2016

Grade 7

Small Photo Book  
VH083521

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 of 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.

Enter your answer and your work or 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.

Enter your answer and your work or explanation in the space provided.

### Rubric Part A (Machine Scored)

Score	Description
1	<p>Student response includes the following element.</p> <ul style="list-style-type: none"> <li>• <b>Computation component</b> = 1 point                             <ul style="list-style-type: none"> <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	<p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> <li>• <b>Computation component</b> = 1 point                             <ul style="list-style-type: none"> <li>○ The student provides a response of 38 pages.</li> </ul> </li> <li>• <b>Modeling component</b> = 1 point                             <ul style="list-style-type: none"> <li>○ The student provides a correct modeling process to determine the number of pages in a small photo book costing \$57.</li> </ul> </li> </ul> <p>Sample Student Response:                      "The cost per page is \$1.50. So a book costing \$57 would have <math>57 \div 1.50 = 38</math> pages."</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• The student may receive a computation point for calculating the number of 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
3	<p>Student response includes the following 3 elements.</p> <ul style="list-style-type: none"> <li>• <b>Computation component</b> = 1 point                             <ul style="list-style-type: none"> <li>○ The student determines a correct cost of \$68.25.</li> </ul> </li> <li>• <b>Modeling component</b> = 1 point                             <ul style="list-style-type: none"> <li>○ The student provides a correct modeling process to determine the cost per page for a large photo book.</li> </ul> </li> <li>• <b>Modeling component</b> = 1 point                             <ul style="list-style-type: none"> <li>○ The student provides a correct modeling process to determine the cost for a large photo book with 35 pages.</li> </ul> </li> </ul> <p>Sample Student Response:                      "The cost per page for a large photo book is 30% more than the cost per</p>

	<p>page of a small photo book. So, the cost per page is <math>\\$1.50 \times 1.3 = \\$1.95</math>."</p> <p>"The cost for a large photo book with 35 pages is <math>35 \times \\$1.95 = \\$68.25</math>."</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <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 page.</li> </ul> <p><b>Further Notes:</b></p> <ul style="list-style-type: none"> <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> <li>• 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.</li> <li>• 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.</li> </ul>
<b>2</b>	Student response includes 2 of the above elements.
<b>1</b>	Student response includes 1 of the above elements.
<b>0</b>	Student response is incorrect or irrelevant.

# Anchor Set A1 – A12

With Annotations

Part B: Score Point 2

Part C: Score Point 3

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 of 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.

\$ 1.50

### Part B

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

Enter your answer and your work or explanation in the space provided.

38 pages

$c = \text{cost per page}$

$n = \text{number of pages}$

$57 \div c = n$

$57 \div 1.50 = 38$

### 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.

Enter your answer and your work or explanation in the space provided.

$1.50 \times 30\% = 0.45$

$1.50 + 0.45 = 1.95$

$t = \text{total cost}$

$c = \text{cost per page}$

$35 \times c = t$

$35 \times 1.95 = 68.25$

The cost of the large photo book is \$68.25.

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**Anchor Paper 1****Part B: Score Point 2**

This part receives full credit; it includes each of the two required elements.

- Correct number of pages (38).
- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $57 \div c = n$ ,  $57 \div 1.50 = 38$ ).

**Part C: Score Point 3**

This part receives full credit; it includes each of the three required elements.

- Correct cost (\$68.25).
- Correct modeling process to determine the cost per page for the large photo book ( $1.50 \times 30\% = 0.45$ ,  $1.50 + 0.45 = 1.95$ ).
- Correct modeling process to determine the cost for a large photo book with 35 pages ( $35 \times 1.95 = 68.25$ ).

Part B: Score Point 2

Part C: Score Point 3

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 of 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.

Enter your answer and your work or explanation in the space provided.

There are 38 pages in a small photo book that cost \$57.

I used the equation  $\frac{1.5}{1} = \frac{57}{x}$

Then I cross multiplied and got  $57 = 1.5x$ , so I divided each side and came out with  $x = 38$ .

### 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.

Enter your answer and your work or explanation in the space provided.

Since for a small book you pay \$1.5 per page, so I took 30% of 1.5 and got .45 then added that to get \$1.95 per page of a large book. So then I did the equation  $\frac{1.95}{1} = \frac{x}{35}$  crossed multiplied and got  $x = 68.25$ . The cost of a large book with 35 pages is \$68.25



## Annotation

### Anchor Paper 2

#### Part B: Score Point 2

This part receives full credit; it includes each of the two required elements.

- Correct number of pages (38).
- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $\frac{1.5}{1} = \frac{57}{x}$ ,  $57 = 1.5x$ , so I divided each side and came out with  $x = 38$ ).

#### Part C: Score Point 3

This part receives full credit; it includes each of the three required elements.

- Correct cost (\$68.25).
- Correct modeling process to determine the cost per page for the large photo book (for a small book you pay \$1.5 per page, so I took 30% of 1.5 and got .45 then added that to get \$1.95 per page of a large book).
- Correct modeling process to determine the cost for a large photo book with 35 pages ( $\frac{1.95}{1} = \frac{x}{35}$ , cross multiplied and got  $x = 68.25$ ).

Part B: Score Point 2

Part C: Score Point 2

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 of 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.

\$ 1.50

**Part B**

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

Enter your answer and your work or explanation in the space provided.

It is 38 pages because each page cost 1.50 and  $57 \div 1.50 = 38$  pages.

**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.

Enter your answer and your work or explanation in the space provided.

It would cost 68.25 because each page cost 1.95 and  $35 \times 1.95 = 68.25$

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**Anchor Paper 3****Part B: Score Point 2**

This part receives full credit; it includes each of the two required elements.

- Correct number of pages (It is 38 pages).
- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $57 \div 1.50 = 38$ ).

**Part C: Score Point 2**

This part receives partial credit; it includes two of the three required elements.

- Correct cost (It would cost 68.25).
- Correct modeling process to determine the cost for a large photo book with 35 pages ( $35 \times 1.95 = 68.25$ )

There is no work or explanation shown for how the 1.95 cost per page was determined (each page cost 1.95).

Part B: Score Point 1

Part C: Score Point 3

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 of 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.

\$ 1.50

### Part B

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

Enter your answer and your work or explanation in the space provided.

$30 \div 20 = 1.50$  so it cost 1.50 per page.  $57 \div 1.50 = 39$ . 39 pages is your answer.

### 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.

Enter your answer and your work or explanation in the space provided.

$1.5 \times 30\% = .45$   
so then  $1.50 + .45 = 1.95$  then  
you would multiply  
 $1.95 \times 35 = 68.25$  68.25 is your  
answer for how much it would cost.

## **Anchor Paper 4**

### **Part B: Score Point 1**

This part receives partial credit; it includes one of the two required elements.

- Correct modeling process to determine the number of pages in a small photo book costing \$57. Although the result of the computation is incorrect, the process to find the number of pages in a small photo book costing \$57 is correctly set up by the expression to the right of the equal sign ( $57 \div 1.50 = 39$ ).

The number of pages is incorrect (39 pages).

### **Part C: Score Point 3**

This part receives full credit; it includes each of the three required elements.

- Correct cost (\$68.25).
- Correct modeling process to determine the cost per page for the large photo book ( $1.5 \times 30\% = .45$ ,  $1.50 + .45 = 1.95$ ).
- Correct modeling process to determine the cost for a large photo book with 35 pages ( $1.95 \times 35 = 68.25$ ).

Part B: Score Point 2

Part C: Score Point 1

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 of 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.

\$ 1.50

**Part B**

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

Enter your answer and your work or explanation in the space provided.

$$57 \div 1.5 = 38$$

**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.

Enter your answer and your work or explanation in the space provided.

$$(1.5 \times .3) + 1.5 = 1.95$$

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**Anchor Paper 5****Part B: Score Point 2**

This part receives full credit; it includes each of the two required elements.

- Correct number of pages (38).
- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $57 \div 1.5 = 38$ ).

**Part C: Score Point 1**

This part receives partial credit; it includes one of the three required elements.

- Correct modeling process to determine the cost per page for the large photo book [ $(1.5 \times .3) + 1.5 = 1.95$ ].

No cost is shown for a large photo book with 35 pages.

The response shows no process for calculating the cost of a large photo book with 35 pages.

Part B: Score Point 0

Part C: Score Point 3

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 of 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.

\$ 1.50

### Part B

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

Enter your answer and your work or explanation in the space provided.

1.50 per page  
 $1.50 \times 57$  pages  
\$83.50 for 57 pages

### 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.

Enter your answer and your work or explanation in the space provided.

30% more of 1.50 =   
 $0.30 \times 1.50 =$    
0.45  
 $0.45 + 1.50 = 1.95$   
\$1.95 per page  
 $1.95 \times 35 = \$68.25$  for 35 pages



## Annotation

### Anchor Paper 6

#### Part B: Score Point 0

This part receives no credit; it includes none of the required elements.

The response does not answer the question asked by the prompt (\$83.50 for 57 pages). The number of pages in a small photo book that costs \$57 is not calculated.

The modeling process to determine the number of pages in a small photo book costing \$57 is incorrect. The cost of \$57 has been re-interpreted as 57 pages and used as part of an irrelevant computation ( $1.5 \times 57$  pages).

#### Part C: Score Point 3

This part receives full credit; it includes each of the three required elements.

- Correct cost (\$68.25).
- Correct modeling process to determine the cost per page for the large photo book (30% more of 1.50,  $0.30 \times 1.50 = 0.45$ ,  $0.45 + 1.50 = 1.95$ ).
- Correct modeling process to determine the cost for a large photo book with 35 pages ( $1.95 \times 35 = \$68.25$ ).

Part B: Score Point 2

Part C: Score Point 0

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 of 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.

\$ 1.50

**Part B**

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

Enter your answer and your work or explanation in the space provided.

$\$57 \div \$1.50 = 38$   
38 pages cost \$57

**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.

Enter your answer and your work or explanation in the space provided.

$1.5 \times 30\% = \$45$   
Its \$45 for a large photo book with 35 pages

## **Anchor Paper 7**

### **Part B: Score Point 2**

This part receives full credit; it includes each of the two required elements.

- Correct number of pages (38 pages).
- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $\$57 \div \$1.50 = 38$ ).

### **Part C: Score Point 0**

This part receives no credit; it includes none of the required elements.

The cost of the large photo book with 35 pages is incorrect (\$45).

The modeling process to determine the cost per page for the large photo book is incorrect ( $1.5 \times 30\% = \$45$ ). The result of the computation reflects a factor of 30x, not 30%, which is incorrect.

The modeling process to determine the cost for a large photo book with 35 pages is incorrect (Its \$45 for a large photo book with 35 pages). The result is based entirely on the previous incorrect calculation. Among numerous flaws, the model has no regard for the factor of 35 pages.

Part B: Score Point 0

Part C: Score Point 2

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 of 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.

\$ 1.50

**Part B**

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

Enter your answer and your work or explanation in the space provided.

$$\begin{aligned}30 \div 20 &= 1.50 \\48 \div 32 &= 1.50 \\1.50 \times 57 &= 85.5\end{aligned}$$

85.5

**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.

Enter your answer and your work or explanation in the space provided.

$$\begin{aligned}1.95 + 1.50 &= 3.45 \\3.45 \times 35 &= 120.75\end{aligned}$$

## Anchor Paper 8

### Part B: Score Point 0

This part receives no credit; it includes none of the required elements.

The cost is incorrect (85.5).

The modeling process to determine the number of pages in a small photo book that costs \$57 is incorrect. The cost of \$57 has been used as part of an irrelevant computation ( $1.50 \times 57 = 85.5$ ).

### Part C: Score Point 2

This part receives partial credit; it includes two of the three required elements.

- Correct cost (\$120.75) based on the incorrect cost per page found. The incorrect price per page (3.45) is used correctly to calculate the total cost of the large photo.  
Note: Credit is given for a calculation if it is the result of correct work or a correct explanation that is applied to an incorrect result from a prior step.
- The modeling process to determine the cost for a large photo book with 35 pages follows through correctly from the previous step ( $3.45 \times 35 = 120.75$ ).

The modeling process to determine the cost per page for the large photo book with 35 pages is incorrect; an additional 1.50 is added to the otherwise correct cost of a large photo book page ( $1.95 + 1.50 = 3.45$ ). However, this incorrect result is used correctly in the step that follows, which does receive credit.

Part B: Score Point 1  
Part C: Score Point 0

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 of 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.

Enter your answer and your work or explanation in the space provided.

$$57 \div \$1.50 = 45$$

**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.

Enter your answer and your work or explanation in the space provided.

$$57.50 \times .30 = \square$$

## Annotation

### Anchor Paper 9

#### Part B: Score Point 1

This part receives partial credit; it includes one of the two required elements.

- Correct modeling process to determine the number of pages in a small photo book costing \$57. Although the result of the computation is incorrect, the process to find the number of pages in a small photo book costing \$57 is correctly set up by the expression to the right of the equal sign ( $57 \div \$1.50 = 45$ ).

The number of pages is incorrect (45).

#### Part C: Score Point 0

This part receives no credit; it includes none of the required elements.

The cost of the large photo book with 35 pages is not calculated.

The modeling process to determine the cost per page for the large photo book is incorrect ( $57.50 \times .30 =$ ). The incomplete equation in the response ( $57.50 \times .30 =$ ) is insufficient to demonstrate understanding of either modeling process. The origin of the 57.50 figure is unclear, as is the reason for multiplying it by .30.

The modeling process to determine the cost for a large photo book with 35 pages is incorrect.

Part B: Score Point 1

Part C: Score Point 0

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 of 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.

\$ 1.5

**Part B**

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

Enter your answer and your work or explanation in the space provided.

$$57 \div 1.5$$

**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.

Enter your answer and your work or explanation in the space provided.

$$35 \div 4.5$$



## Annotation

### Anchor Paper 10

#### Part B: Score Point 1

This part receives partial credit; it includes one of the two required elements.

- Correct modeling process to determine the number of pages in a small photo book costing \$57 ( $57 \div 1.5$ ).

The number of pages is not calculated. The process is set up correctly to find the answer, but no solution is shown.

#### Part C: Score Point 0

This part receives no credit; it includes none of the required elements.

The cost of the large photo book with 35 pages is not calculated.

The modeling process to determine the cost per page for the large photo book is incomplete. There is no evident attempt to calculate the large photo book price per page.

The modeling process to determine the cost for a large photo book with 35 pages is incorrect. The expression shown ( $35 \div 4.5$ ) is irrelevant.

Part B: Score Point 0

Part C: Score Point 0

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 of 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.

\$ 1.50

**Part B**

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

Enter your answer and your work or explanation in the space provided.

$$57 \div 20 = 2.85$$

**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.

Enter your answer and your work or explanation in the space provided.

30% of 20 is 6 multiplied by 35 is  
2.10

## Annotation

### Anchor Paper 11

#### Part B: Score Point 0

This part receives no credit; it includes none of the required elements.

The number of pages is incorrect (2.85).

The modeling process to determine the number of pages in a small photo book that costs \$57 is incorrect. The divisor of 20 pages - possibly copied from the first row of the Small Photo Book table - is irrelevant to the problem described by the prompt. The resulting equation ( $57 \div 20 = 2.85$ ) is incorrect.

#### Part C: Score Point 0

This part receives no credit; it includes none of the required elements.

The cost of the large photo book with 35 pages is incorrect (2.10).

A modeling process to determine the cost per page for the large photo book is incorrect (30% of 20 is 6). The 30% increase should be applied to a cost per page, but the response treats the multiplier (20) as either an undefined quantity, or perhaps as a page count. In either case, the significance of the result (6) is not explained.

The modeling process to determine the cost for a large photo book with 35 pages is incorrect (6 multiplied by 35 is 2.10). The factor (6) has no significance, resulting in an irrelevant model. Additionally, the product is incorrect;  $6 \times 35 = 210$ , not 2.10. While it is reasonable for the product to include a factor of 35, which corresponds to the number of large photo book pages, there is not enough of an explanation to receive credit.

Part B: Score Point 0

Part C: Score Point 0

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 of 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.

Enter your answer and your work or explanation in the space provided.

there is 42 pages in the book for \$57  
i found this answer by doing 32 to 10.

### 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.

Enter your answer and your work or explanation in the space provided.

10.5 i got this answer by setting up a  
puportion.

## Annotation

### Anchor Paper 12

#### Part B: Score Point 0

This part receives no credit; it includes none of the required elements.

The number of pages is incorrect (42 pages).

The modeling process to determine the number of pages in a small photo book that costs \$57 (I found this answer by doing 32 to 10) is vague and incorrect.

#### Part C: Score Point 0

This part receives no credit; it includes none of the required elements.

The cost of the large photo book with 35 pages is incorrect (10.5).

A modeling process to determine the cost per page for the large photo book is not explained.

The modeling process to determine the cost for a large photo book with 35 pages is incorrect. The process stated (i got this answer by setting up a puportion) is too vague.

# Practice Set P101 - P105

No Annotations Included

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 of 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.

Enter your answer and your work or explanation in the space provided.

38 pages, because each page costs a \$1.50 so 38 times one and five tenths equals 57.

### 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.

Enter your answer and your work or explanation in the space provided.

\$68.25, because thirty percent of one and five tenths is forty five hundredths so one and five tenths plus forty five hundredths equals one and ninety five hundredths.  $1.95 \times 35 = 68.25$

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 of 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.

\$ 1.50

### Part B

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

Enter your answer and your work or explanation in the space provided.

38 pages

### 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.

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For 57 pages of the small photo book would cost 85.50\$

### 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.

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For a book with 35 pages it would cost 68.25\$ with each page being 1.95 per page

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\$ 1.50

### Part B

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

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$$57 \div 1.5 = 37$$

I divided the amount of the total cost by the cost per page which was \$1.50 or if use in a equation 1.5. Doing this allowed me to get the answer 37 pages.

### 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.

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$$1.5 \times 1.3 = 1.95$$

$$35 \times 1.95 = \$68.25$$

I did the cost per page of a small photobook times by 1.3 or 130% because each page cost 30%. By doing 130% instead of 30%, i save myself a extra step of adding. Then I times my new cost per page of \$1.95 by total number of pages getting \$69.25

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$$57 \div 1.50 = 38$$

### Part C

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

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$$\begin{aligned} 1.50 \times .30 &= .45 \\ 1.50 + .45 &= 1.95 \\ 35 \div 1.95 &= 17.95 \end{aligned}$$

### Practice Set

Paper	Score
P101	2,3
P102	1,1
P103	0,1
P104	1,3
P105	2,1