4.4 AVOIDING PIXELATION

DIRECTIONS: Follow the appropriate steps using Adobe Photoshop, or a similar image-editing program, to make the calculations below.

New			
Name: Untitled-1	ОК		
Preset: Custom	Cancel		
Size:	Save Preset		
Width: 32.444 inches	Delete Preset		
Height: 48.662 inches	Device Central		
Resolution: 72 pixels/inch			
Color Mode: RGB Color 🛟 8 bit		Create a new file in Adobe	
Background Contents: White	Image Size:	Photoshop that is 32.444	
▼ Advanced	23.4M	inches by 48 662 at 72 pixels/incl	
		Note that this file is 23.4 megabytes	

Maximum size

Online	" (W) x (H) at 72PPI	What is the largest size	
Newspaper	" (W) x (H) at 170 PPI	What is the largest size this specific photo can be reproduced in the publications indicated without a loss of quality?	
Magazine	" (W) x (H) @ 300PPI		

 Optimum size

 Online
 ____" (W) x 3.5" (H) at 72PPI = ____ MB

 Newspaper
 ____" (W) x 3.5" (H) at 170 PPI = ____ MB

 Magazine
 ____" (W) x 3.5" (H) @ 300PPI = ____ MB

Your designer indicates that the photo will actually be reproduced only 3.5 inches tall in the newspaper. Using Photoshop's Image Size dialog box, calculate the final width of the image and then the final image size in megabytes.

BONUS INFORMATION

- To calculate the actual resolution in pixels per inch required by your publication, ask your press operators what "line screen" they use.
- Newspapers typically use a line screen of somewhere between 65 lines per inch and 85 LPI.
- Magazines use 150 LPI.
- To calculate the required resolution, multiply the line screen by two.

Newspapers • 65-85 LPI x 2 = 130-170 PPI Magazines • 150 LPI x 2 = 300 PPI