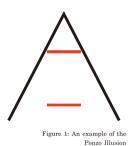
Lesson 1 Potential Uses of Optical Illusions

Class:	Number:	Name:		
〇 音声を聴いて空所に英	語を書き取り	りましょう。		
p. 20~21				
Look at (1.). What do you see? Some p	people might see (2.	
),	while others n	night see (3.).
This illustration shows how our eyes can be tricked, what is called (4.).
Such illusions have been used	in various wa	ys which we can see in our da	nily lives.	
2 First, one example is the m	anner in whic	h they have (5.) been incorporated	into
structural designs. The <i>kare</i> .	s <i>ansui (</i> drv la	undscape) garden at the Zen	temple Ryōanii in K	voto

structural designs. The *karesansui* (dry landscape) garden at the Zen temple Ryōanji in Kyoto illustrates such a use. Its surface may look (6.), but actually, it inclines towards the garden's south-east corner. Also, the west-side earthen wall is (7.) at its northern end. These factors create an optical illusion that makes this surface look deeper. This effect is the same as the one seen in the Ponzo Illusion (Figure 1), in which the horizontal line closer to the top looks longer than the line below it, even though the two are (8.

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p. 21~23			
3 Second, another optical illusion can be se	een in the picture be	low, which sh	ows the interior of a
house that appears to have (1.). The ef	fect is caused by the
Fick Illusion (Figure 2), in which the	vertical line seems	longer than	the horizontal line
(2.) their lengths being prec	isely the same. Using	g this effect ca	an make a room look
3.) than it actually is.			
Figure 2: An	example of the Fick Illusion		
4 Third, another technique (4.) is to c	reate, on a two	-dimensional surface,
the appearance of a three-dimensional object	. In one train station,	(5.), people
are frequently unable to find an elevator loca	ated in a blind spot. (6), a sign
that appears to be three-dimensional is painted	ed on the floor. The s	ign is of signif	icant help in sending
people (7.).		
5 Last, they can be used (8.) with n	o traffic lights.	Crosswalk designs
that look three-dimensional have been painte	ed on some roads (9.).
From the viewpoint of approaching drivers, i	it looks like large con	crete blocks a	re in the road.
Hopefully, drivers will slow down when they	y see them, (10.).
6 Of course, the power of optical illusions is nor can it make a ceiling higher. Over time,		annear three) a garden larger,
lose its effectiveness in preventing accidents.	•		
is just an illusion. Nonetheless, (12.	. Direis will come u	, rounze mut w),
10 Just all literion 1 (011001101000), (12).),

it should be possible to find an even wider variety of useful applications of optical illusions.