Practice Question Set For GCSE

**Subject: Physics** 

Paper-2 Topic: GCSE Triple Science\_Waves (LDQ)



	:he Student: ks : 20 Marks			Time : 20 Minutes
1.				
A per	rson can see an image of l	nimself in a tall plane mirro	r.	
		Plane mirror		
	A	В		•c
The o	diagram shows how the pe	erson can see his hat.  hows the position of the im	age of his hat?	
` '	Write the correct answer			
				(1
(b)	On the diagram, use a ru	ller to draw a light ray to sh	ow how the person can	see his shoe.
(c)	Which <b>one</b> of the words i	n the box is used to describ	pe the image formed by	a plane mirror?
	Draw a ring around the correct answer.			
	imaginary	real	virtual	
				(1) (Total 5 marks)

## Q2.

A lorry has an air horn. The air horn produces sound waves in the air.

(a)	Use	e one word to complete the following sentence.	
	Sou	and waves cause air particles to	(1)
(b)	The	air horn produces sound waves at a constant frequency of 420 Hz.	(1)
(5)		wavelength of the sound waves is 0.80 m.	
		culate the speed of the sound waves.	
		Speed =	(2)
			(Total 3 marks)
Q3.			
(a)	Diag	gram 1 shows two waves.	
		Diagram 1	
	(i)	Name <b>one</b> wave quantity that is the same for the two waves.	
	(ii)	Name <b>one</b> wave quantity that is different for the two waves.	
	(iii)	The waves in <b>Diagram 1</b> are transverse.	
		Which <b>one</b> of the following types of wave is <b>not</b> a transverse wave?	
		Draw a ring around the correct answer.	
		gamma rays sound visible light	
			(1)

(b)	<ul> <li>Diagram 2 shows water waves in a ripple tank moving towards and passing through a gap in a barrier.</li> </ul>			
	Diagram 2			

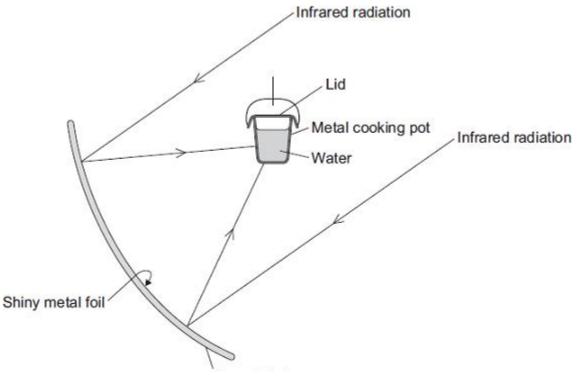
Every second, 8 waves pass through the gap in the barrier. The waves have a wavelength of  $0.015 \ \text{metres}$ .

 Speed =	

(Total 6 marks)

Q4.

The diagram shows the design of a solar cooker. The cooker heats water using infrared radiation from the Sun.



				-
Which v	vould be the best col	our to paint the outside o	of the metal cooking pot?	
Oraw a r	ring around the corre	ct answer.		
	black	silver	white	
Give a re	eason for your answe	er.		
				_
				-
				-
Why do	es the cooking pot ha	ave a lid?		
				-
vny do:	es the cooking pot na	ave a lid?		_

	_
	_
_	
Energy =	J
	(2)
	(2)
	(Total 6 marks)
	(Total o Illaiks)
	(Total 6 marks)