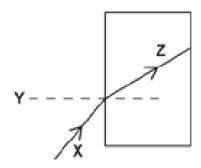
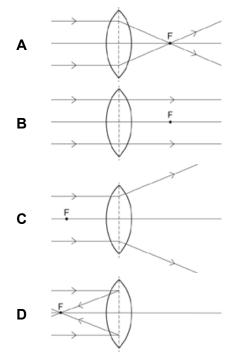
1. A student draws a ray diagram to show the refraction of a light ray through a glass block.



X is the incident ray. What are the names of line Y and line Z?

Υ	_
	_
Z	[1]

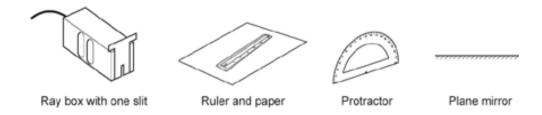
2. Which ray diagram correctly shows rays of light passing through a lens with principal focus F?



Your answer [1]

3. A student does an experiment to investigate the reflection of light from a plane mirror.

The diagram shows the equipment the student uses



Describe how the student does the experiment.

In your answer include:

- how the student sets up the equipment
- what the student will measure
- a prediction of what the student will find out from their results.

You can draw a labelled diagram to support your answer.						
[6]						
[V]						

4. A shirt appears green in white light.

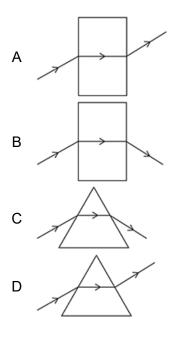
Which colour will the shirt appear in red light?

- A Black
- **B** Blue
- **C** Green
- **D** Red

Your answer					[1]
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5. A student shines a ray of red light at different shaped glass blocks.

Which diagram shows a correct path for the ray?



Your answer [1]

6. Fig. 16.1 shows a submarine under water.

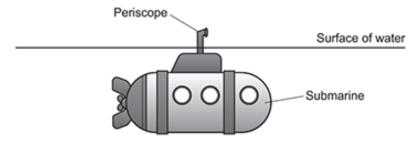


Fig. 16.1

A periscope is used to look above the water. **Fig. 16.2** shows the periscope.

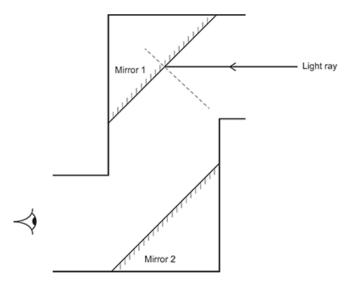


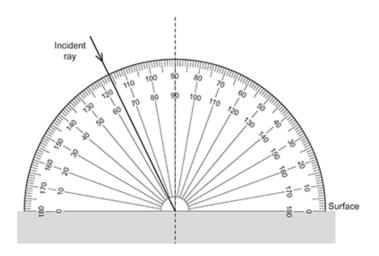
Fig. 16.2

Complete the ray diagram in Fig. 16.2 to show how light passes through the periscope to the eye.

You must include a normal line in your completed ray diagram on Mirror 2.

[3]

7. A ray of light hits a surface.



What is the angle of incidence?

- **A** 26°
- **B** 64°
- **C** 76°
- **D** 116°

Your answer [1]