

X-Rays

Question Paper

Level	GCSE
Subject	Physics
Exam Board	AQA
Unit	P3
Topic	X-Rays
Difficulty Level	Bronze Level
Booklet	Question Paper

Time Allowed: 9 minutes

Score: /9

Percentage: /100

Q1. The figure below shows an X-ray image of a human skull.



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(a) Use the correct answers from the box to complete the sentence.

absorbs	ionises	reflects	transmits
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When X-rays enter the human body, soft tissue
X-rays
and bone X-rays.

(2)

(b) Complete the following sentence.

The X-rays affect photographic film in the same way that
does.

(1)

(c) The table below shows the total dose of X-rays received by the human body when different parts are X-rayed.

Part of body X-rayed	Dose of X-rays received by human body in arbitrary units
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Head	3
Chest	4
Pelvis	60

Calculate the number of head X-rays that are equal in dose to one pelvis X-ray.

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Number of head X-rays =

(2)

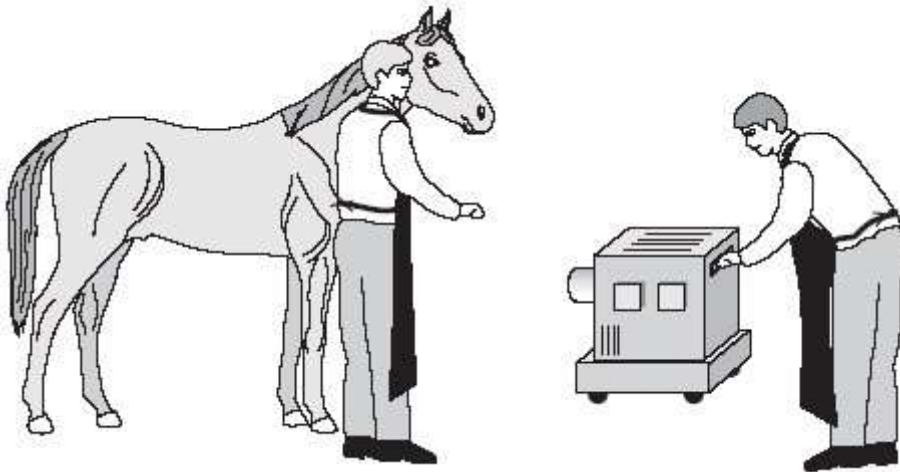
(d) Which **one** of the following is another use of X-rays?

Tick (✓) **one** box.

- Cleaning stained teeth
- Killing cancer cells
- Scanning of unborn babies

(1)
(Total 6 marks)

Q2. The picture shows a horse being prepared for an X-ray.



The person who will take the X-ray and the person holding the horse are wearing special aprons. These aprons have a lead lining.

Explain why the lead lining is important.

To gain full marks in this question you should write your ideas in good English. Put them into a sensible order and use the correct scientific words.

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(Total 3 marks)