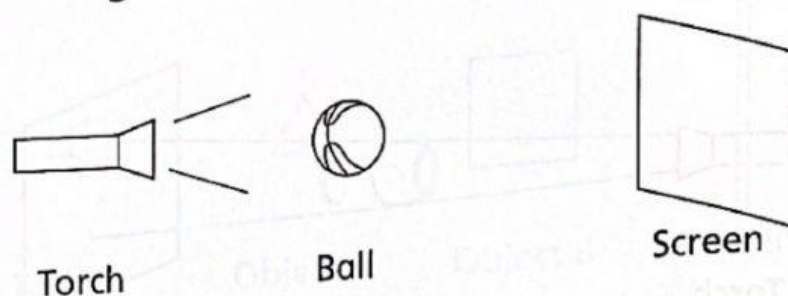

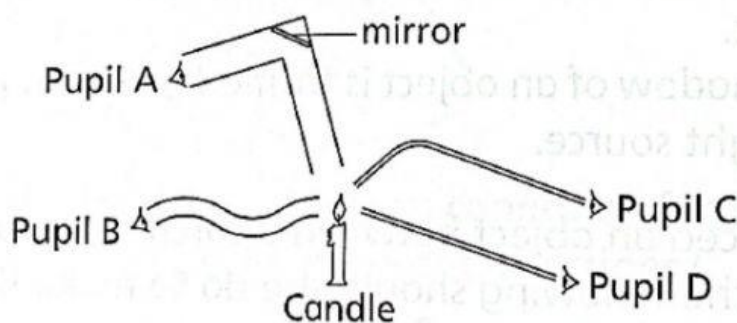


Study the following diagram and answer questions 19 and 20.



19. What would happen to the shadow formed on the screen when the ball is moved further from the torch?
- (1) The shadow will disappear.
  - (2) The shadow will become bigger.
  - (3) The shadow will become smaller.
  - (4) The shadow will remain unchanged. (     )
20. What would happen to the shadow formed on the screen when the screen is moved nearer to the ball?
- (1) The shadow will disappear.
  - (2) The shadow will become bigger.
  - (3) The shadow will become smaller.
  - (4) The shadow will remain unchanged. (     )

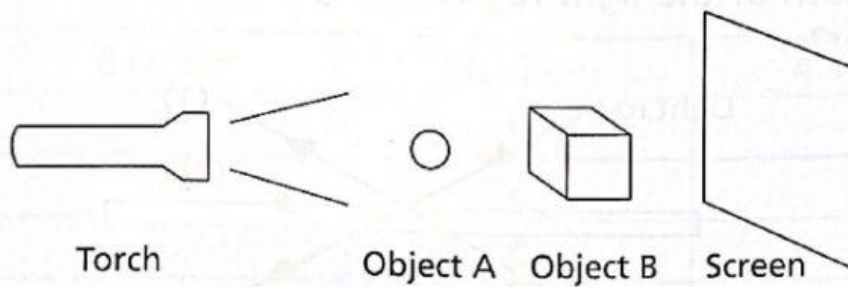
21.  Four pupils A, B, C and D used four different objects to see the candle flame as shown below.



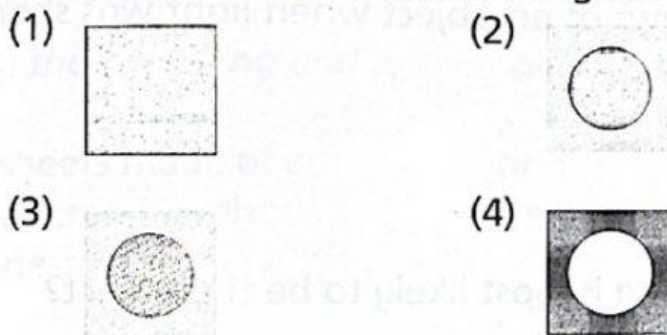
Which of the pupils would be able to see the candle flame?

- (1) D only
- (2) A and D only
- (3) B and C only
- (4) A, B, C and D (     )

study the following diagram and answer questions 22 and 23.

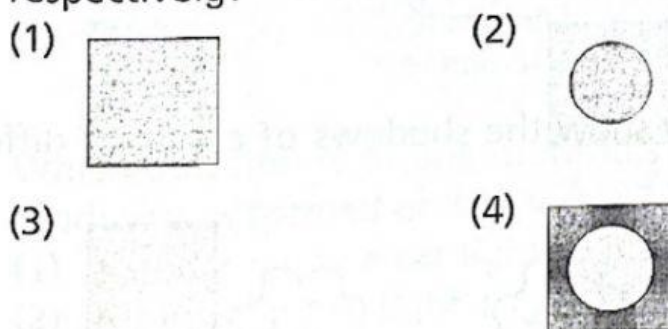


22. Which of the following shadows will be observed on the screen if objects A and B are made of glass and metal respectively?



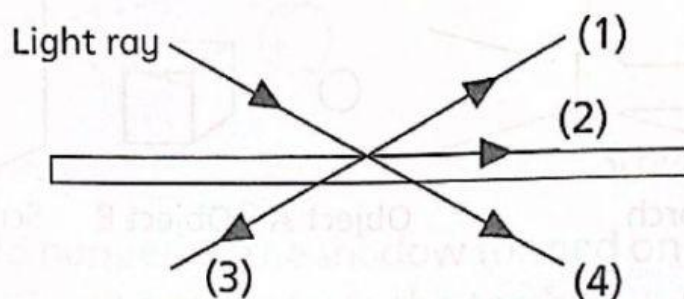
( )

23. Which of the following shadows will be observed on the screen if objects A and B are made of wood and tracing paper respectively?

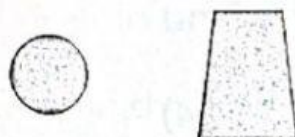


( )

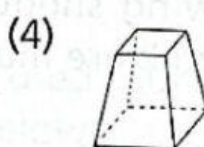
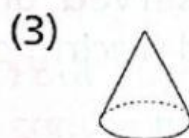
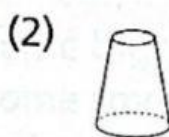
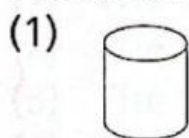
24. A light ray falls on a plane mirror as shown. Which arrow shows the path of the light ray correctly when it falls on the plane mirror?



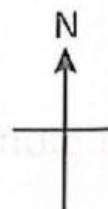
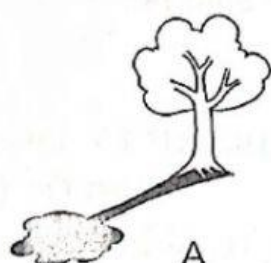
25. Below are the shadows of an object when light was shone on it from different positions.



Which of the following is most likely to be the object?



26. The diagrams below show the shadows of a tree at different times of the day.





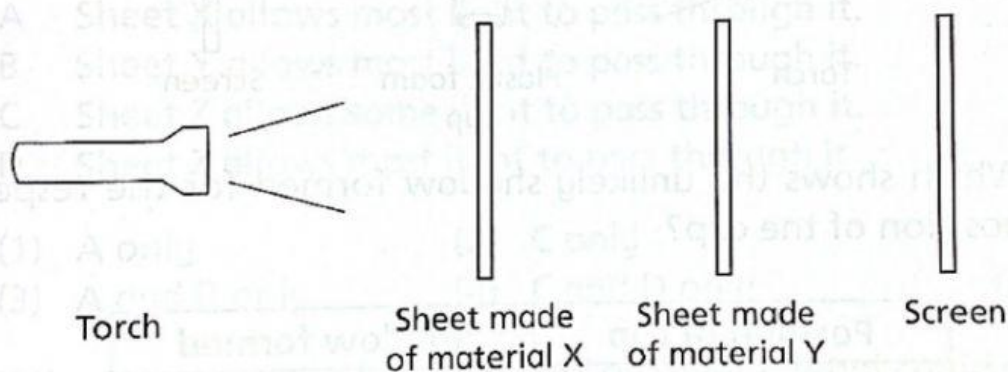
At what time does each shadow form?

	8.00 am	11.30 am	4.00 pm
(1)	A	B	C
(2)	A	C	B
(3)	B	C	A
(4)	B	A	C

( )

Study the following and answer questions 27 and 28.

Two sheets made of materials X and Y were placed between a torch and a screen as shown below. The sheets were of similar size and thickness.



27. Which statement about materials X and Y is correct if no shadow was formed on the screen?
- (1) X and Y allow most light to pass through them.
  - (2) X allows most light to pass through it but Y allows no light to pass through it.
  - (3) X allows no light to pass through it but Y allows some light to pass through it.
  - (4) X allows some light to pass through it but Y allows most light to pass through it.
- ( )