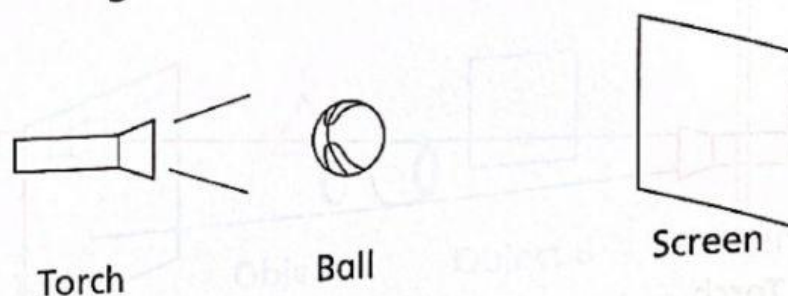
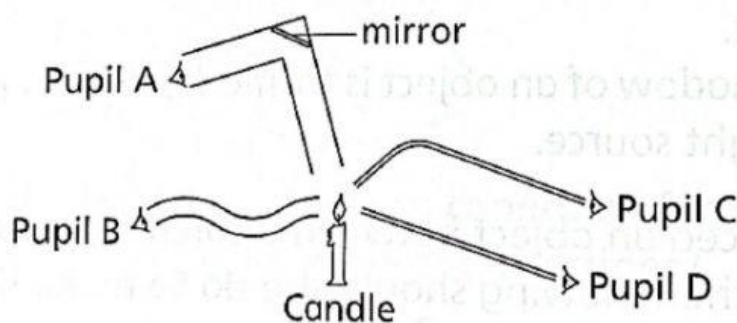


Study the following diagram and answer questions 19 and 20.



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. ()

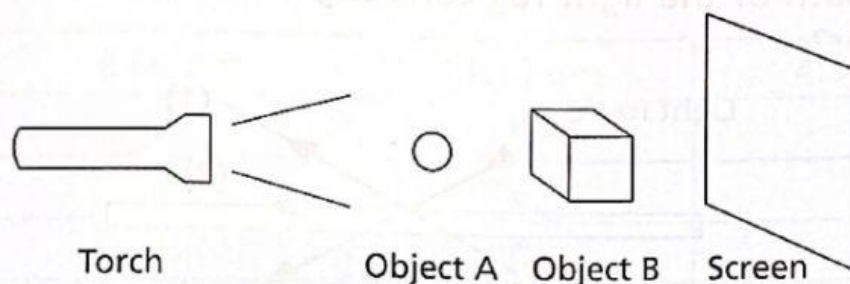
21. Four pupils A, B, C and D used four different objects to see the candle flame as shown below.



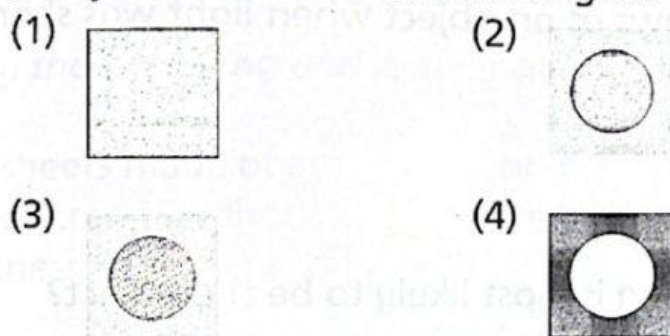
Which of the pupils would be able to see the candle flame?

- (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.

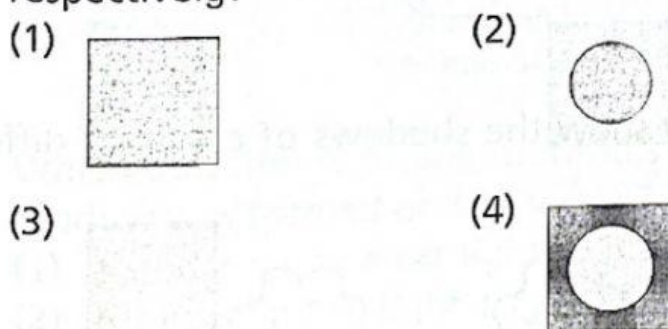


22. Which of the following shadows will be observed on the screen if objects A and B are made of glass and metal respectively?



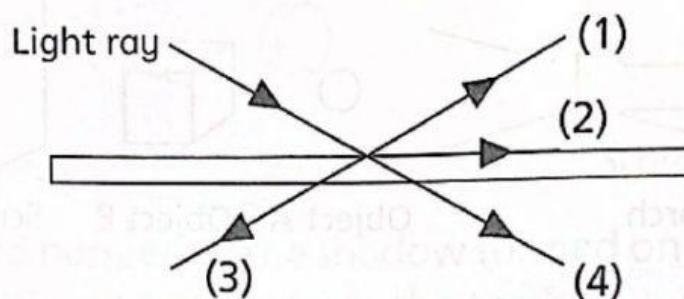
()

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?



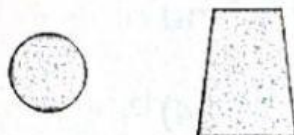
()

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?

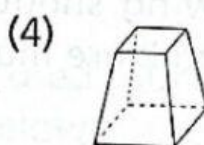
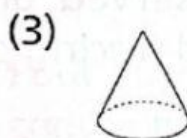
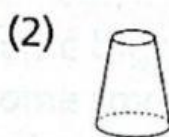
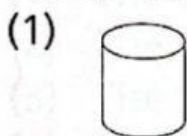


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25. Below are the shadows of an object when light was shone on it from different positions.

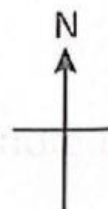
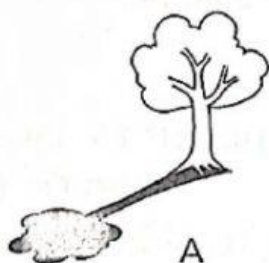


Which of the following is most likely to be the object?



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



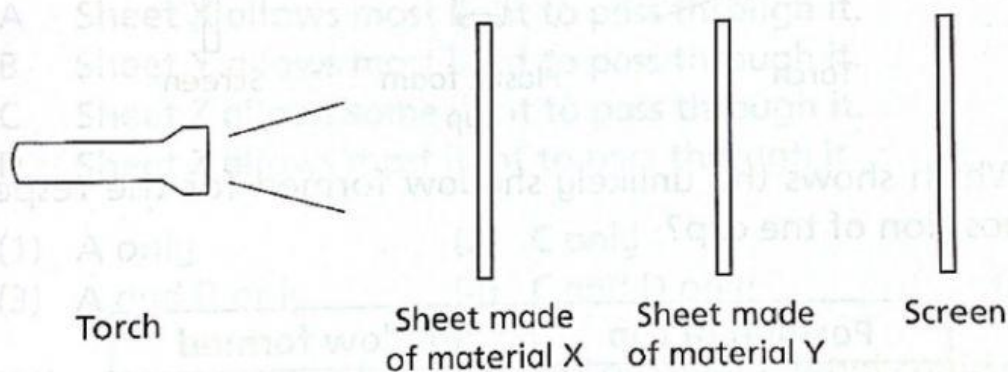
At what time does each shadow form?

	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.
- ()