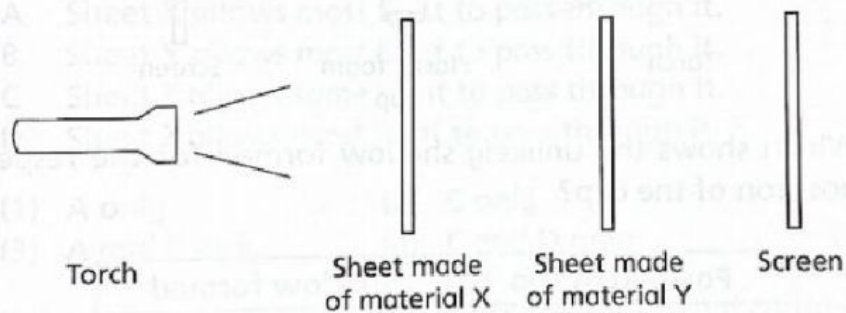


Study the following and answer questions 27 and 28.

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. ()

28. Which statement about materials X and Y is likely possible if the following shadow was formed on the screen?



- (1) X and Y allow most light to pass through them.
- (2) X and Y allow some or no light to pass through them.
- (3) X allows most light to pass through it and Y allows some light to pass through it.
- (4) X allows some light to pass through it and Y does not allow light to pass through it. ()

29. A torch was shone on a plastic foam cup as shown below.

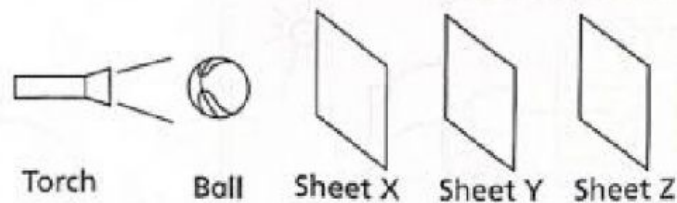


Which shows the unlikely shadow formed for the respective position of the cup?

	Position of cup	Shadow formed
(1)		
(2)		
(3)		
(4)		

()

study the following diagram and answer questions 30 to 32.



30. Which statement is correct if a dark shadow of the ball is formed on sheet Y?
- (1) Sheet Y allows light to pass through it.
 - (2) Sheet Z does not allow light to pass through it.
 - (3) Sheet Y does not allow light to pass through it.
 - (4) Sheet X does not allow light to pass through it. ()
31. Which of the following is/are correct if a dark shadow of the ball is formed on sheet Z?
- A Sheet X allows most light to pass through it.
 - B Sheet Y allows most light to pass through it.
 - C Sheet Z allows some light to pass through it.
 - D Sheet Z allows most light to pass through it.
- (1) A only (2) C only
- (3) A and B only (4) C and D only ()

2. Study the diagrams below.



Sun



Fireworks



Firefly



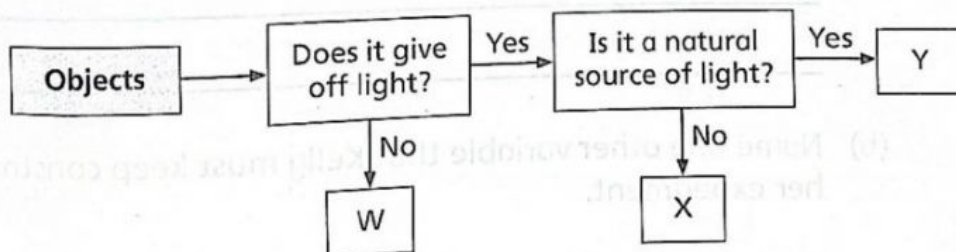
Fire

(a) What do the above things produce?

(b) Classify the above objects in the following table.

Natural sources of light	Artificial sources of light

3. Study the flow chart below.



Suggest examples for objects W, X and Y.

Object W: _____ Object X: _____

Object Y: _____