

Name: _____ Date: _____

Light

Q1. Mention against each of the following whether regular or diffused reflection will take place when a beam of light strikes. Justify your answer in each case.

- (a) Polished wooden table
- (b) Chalk powder
- (c) Cardboard surface
- (d) Marble floor with water spread over it
- (e) Mirror
- (f) Piece of paper

Ans. _____

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Ans. (a) Polished wooden table – Regular reflection. A polished wooden table has smooth surface. Hence reflections from the polished table will be regular.

(b) Chalk powder – Diffused reflection. Chalk powder has irregular surface. Hence diffused reflections will take place from chalk powder.

(c) Cardboard surface - Diffused reflection. Cardboard surface has irregular surface. Hence diffused reflections will take place from Cardboard surface.

(d) Marble floor with water spread over it - Regular reflection. Marble floor with water spread over it is an example of regular surface. Hence regular reflection will take place.

(e) Mirror - Regular reflection. Mirror has smooth surface. Hence regular reflection will take place.

(f) Piece of paper - Diffused reflection. Although a piece of paper may look smooth, but it has many irregularities on its surface. Hence diffused reflections will take place from paper.