SD AL FALAH DARUSSALAM 2 (ICP)
Penilaian Tengah Semester (PTS) 2
Tahun Pelajaran 2020 - 2021

Full Name: ..... Subject : .....

Class : ..... Attendance List: ..... Date : .....

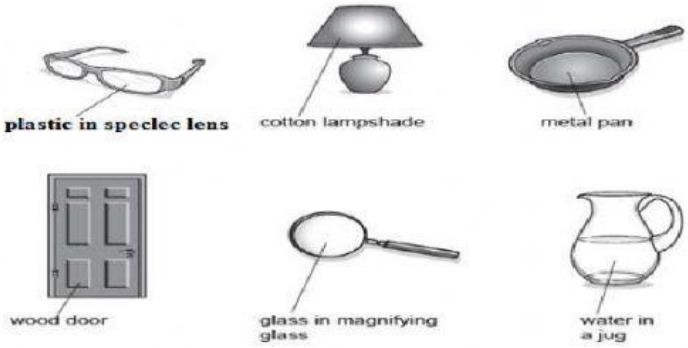
Please Retype This Sentence: "I am honest Kid. I'll do the best for Allah"

.....

¥Bismillaahirrohmaanirrohiim¥

Answer the questions based on the instruction given.

1. Mirza looks at different materials.



Identify each of the materials based on **transparent, translucent and opaque**.

a. Plastic in speclec lens : .....
b. Catton lampshade : .....
c. Metal pan : .....
d. Wood door : .....
e. Glass in magnifying glass : .....
f. Water in a jug : .....

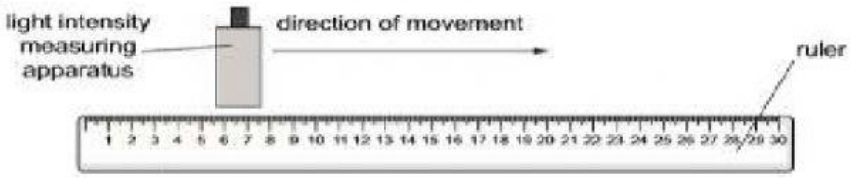
2. Draw a line from each **word** to its **meaning**.

word	meaning
transparent	allows no light to pass through
translucent	allows some light to pass through
opaque	allows all light to pass through

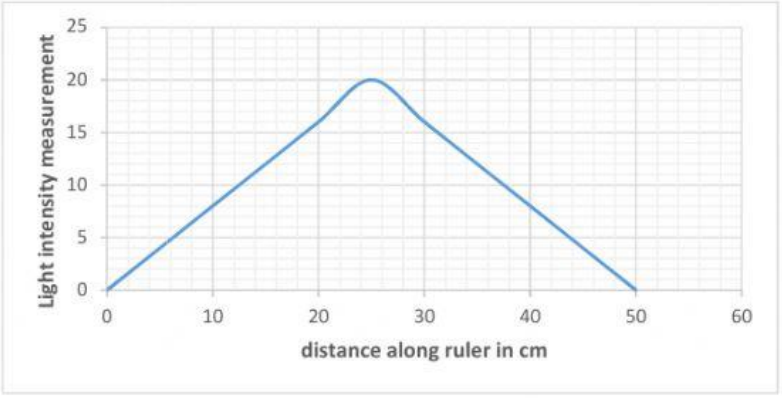
LIVEWORKSHEETS

3. Light intensity can be measured.

   Rani moves the light intensity measuring apparatus along a ruler.



She draws a line graph using her measurements.

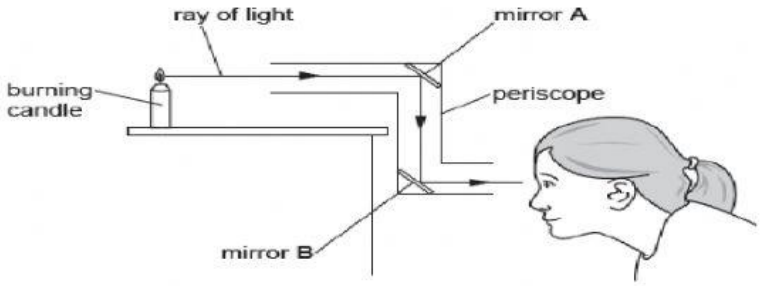


What does light intensity measure? Choose the correct answer.

the brightness of light **the colour of light**

the shade of light **the temperature of light**

Read this description about Annisa when uses a periscope to answer number 4 and 5.



Her periscope contains two mirrors. The mirrors are labelled **A** and **B**.

A ray of light goes from the burning candle to the periscope.

4. What happens to the ray of light when it reaches mirror **A**?

   It will … .

5. Complete the sentences.

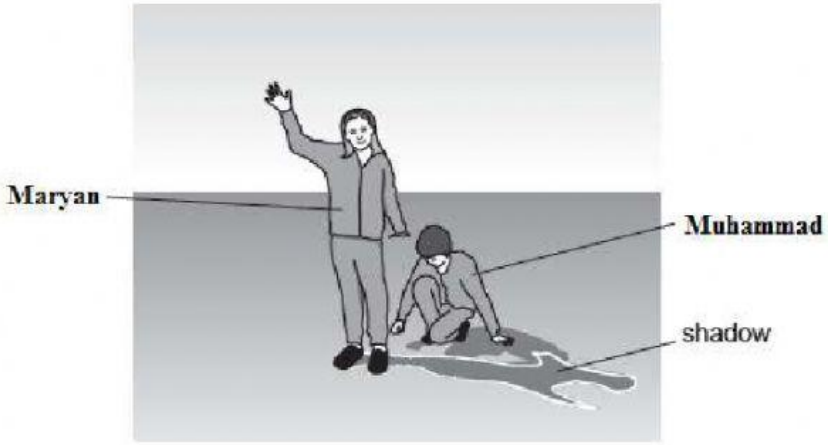
   The ray of light from mirror **B** enters Jamila's … .

   Jamila … the burning candle.

LIVEWORKSHEETS

Read this instruction to answer number 6 and 7.

Maryan and Muhammad investigate shadows.



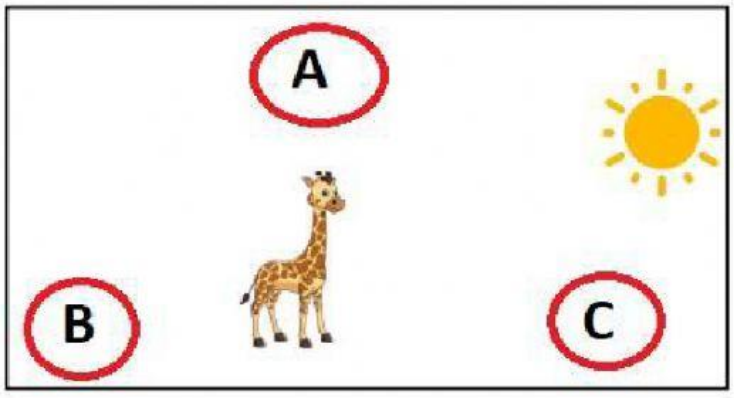
- Maryan stands outside in the sunshine at midday.
- Muhammad draws around the shadow she makes.

Maryan dan Muhammad do this again 2 hours later.

6. Predict what happens to Maryan's shadow. The shadow is **smaller/bigger** than before.

7. Muhammad want to measure the shadow of Maryam, so he can use … .

8. Look at the sun on the picture. Choose the correct shadow of giraffe.



9. Identify each of the materials based on **transparent, translucent and opaque**.

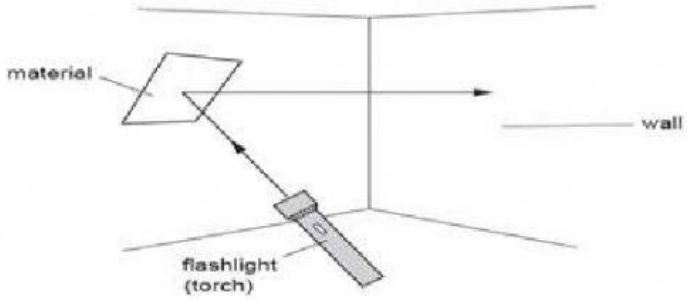
   Classify the objects based on whether their materials are transparent, translucent or opaque in this table.

   a. Frosted glass : … .
   b. Aluminum foil : … .
   c. Table wood : … .
   d. Clear glass : … .
   e. Display case : … .
   f. Daily curtain : … .

LIVEWORKSHEETS

Read this instruction for number 10 and 11.

Adam and Zahra use a flashlight. They shine the light from the flashlight onto different materials. The light then travels onto the wall.



10. The material that can be used in this investigation is … .

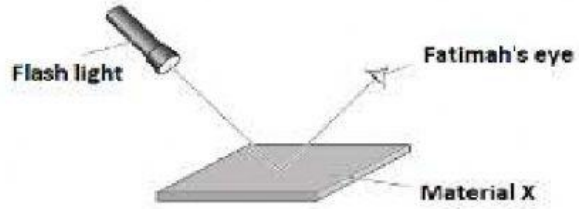
Mirror **glass** **clothes**

11. Complete the sentences. Choose the **best** words from the following.

absorbed **bounced** **colour** **direction** **reflected** **shape**

The light from the flashlight is … by the material. When this happens the light changes … .

12. Alfi uses a flash light to reflect light into Fatimah's eye.



Material **X** reflects the light so that Fatimah can see an image of the flash light.

Which two materials can **X** be made from? Choose the **two** best answers.

card **clay** **cotton** **felt** **glass** **mirror** **paper** **rubber**

13. These statements are about light. Decide if each statement is **true** or **false**.

Tick (√) the correct box beside each statement.

	True	False
Light intensity cannot be measured with sensors.	☐	☐
We see light when it leaves our eyes.	☐	☐
Light travels in straight lines.	☐	☐

LIVEWORKSHEETS

Read this description about Amar when making shadow to answer number 14 and 15.

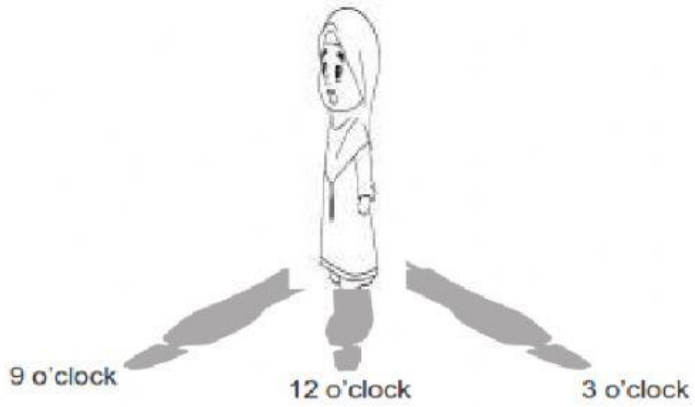
Amar and Zahra investigate position and length of shadows during the day.

Zahra stands in the playground. Amar draws around her feet with chalk.

At 9 o'clock in the morning he draws around her shadow to record its position and length.

He repeats this process at 12 o'clock and 3 o'clock in the afternoon.

Here are their results.



14. Which of the following must they do to make their investigation a fair test?

Tick (√) one box.

Do the investigation on a cloudy day.	☐
Zahra should stand up straight when Amar draws the shadow.	☐
Zahra should stand in a different place each time.	☐
Zahra should move so the shadows move.	☐
Zahra should stand on the chalk marks each time Amar draws the shadow.	☐

15. Amar does not know why Zahra's shadow moves.

He asks his friends. And his friends answer.

Hamzah

"because a different part of the Sun is shining on Zahra "

Fatih

"because Zahra always turns her back to the Sun "

Zaenab

"because Zahra is moving "

Hindun

"because the Sun is shining from different directions each time "

Which friend has the correct answer?

Hamzah **Zaenab** **Fatih** **Hindun**

LIVEWORKSHEETS

16. Class 5 discuss light sources with their teacher.



Which student knows the correct answer to the teacher's question?

Write the correct letter … .

17. Which of the following is **not** a light source?

Tick (√) the correct box.



Candle ☐



Moon ☐



Stars ☐



Sun ☐

18. Complete these sentences using the words shown.

direction **dull** **shape** **shiny** **speed**

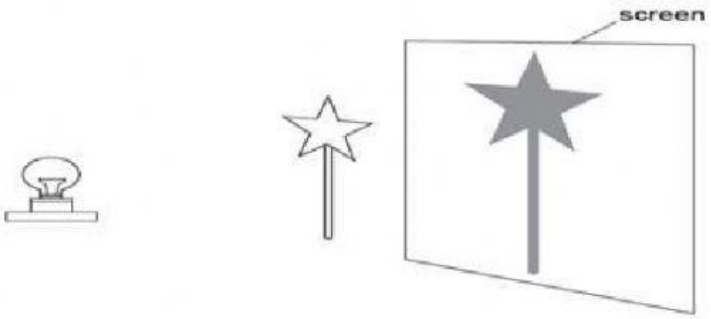
a) When a beam of light hits a mirror it changes …… .

b) Reflections can be seen in surfaces which are …… .

c) Cardboard does not reflect light because it is …….. .

LIVEWORKSHEETS

19. Jamila is teaching Gabriella about shadows. They set up the apparatus shown.



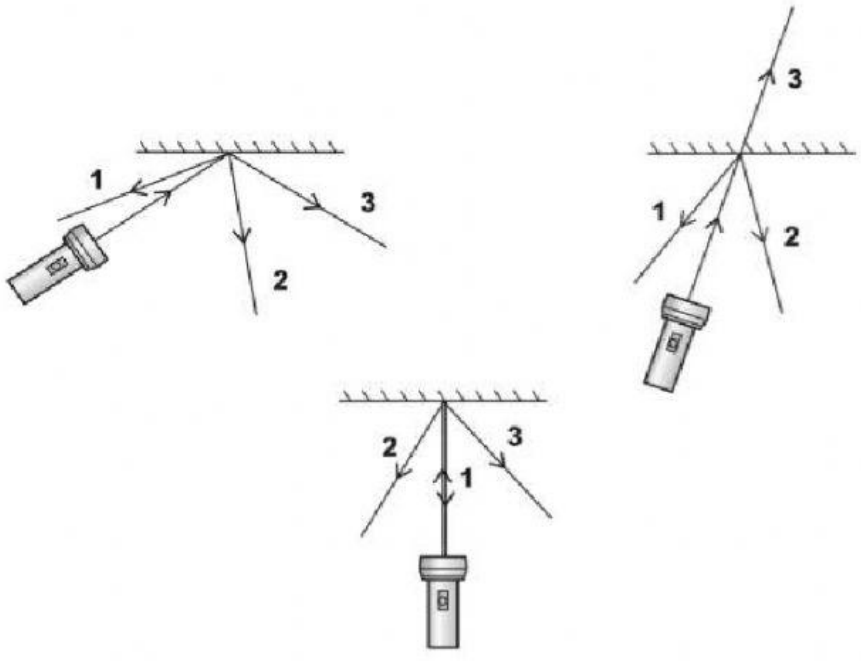
Gabriella wants to know what factors affect the size of the shadow.

Tick (v) the **three** correct factors.

- colour of the object ☐
- distance from the object to the screen ☐
- distance of the light source to the object ☐
- material of the object ☐
- size of the object ☐
- strength of the light source ☐

20. Hasan investigates light from a torch shining on a mirror. The diagrams show what he does.

On each diagram **choose the number** which shows the reflected ray of light.



LIVEWORKSHEETS

Look the table below to answer number 21 and 22. Here are their results.

Distance between card and screen in cm	10	20	30	40	80
Width of shadow in cm	5	10	15	20	40

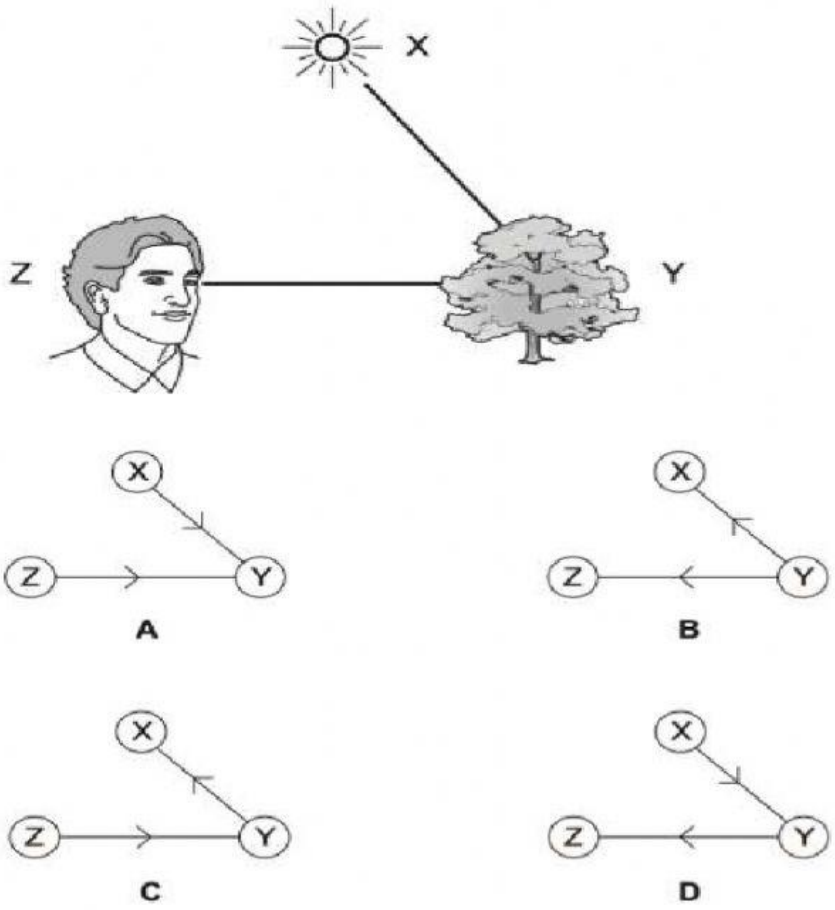
21. The distance between the card and the screen is 50 cm.

What is the width of the shadow? ……..... cm

22. The width of the shadow is 30 cm.

What is the distance between the card and the screen? ……..... cm

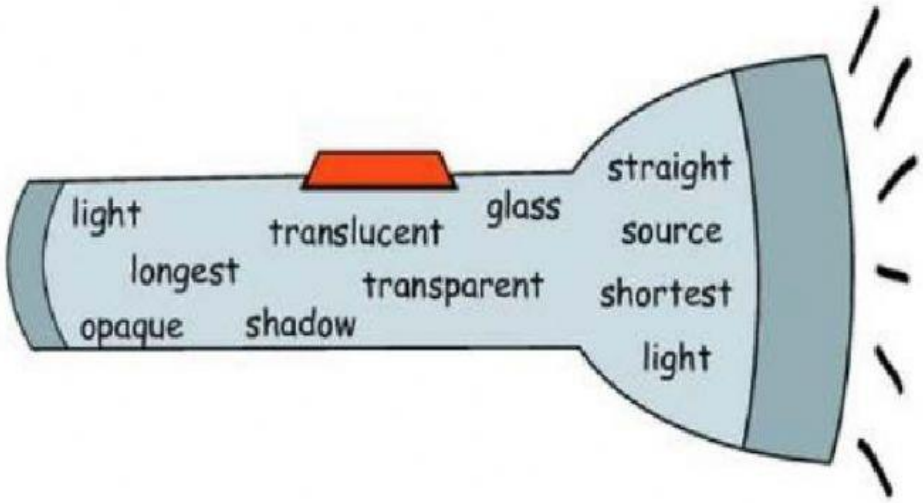
23. Husen looks at a tree.



Which diagram shows the correct rays of light? ... .

LIVEWORKSHEETS

Answer the question number 24 until 30 with the words from the torch below.



Light travels in **(24)** … lines from a … of light that bounces off an object. We can see the object because the **(25)** … enter our eyes.

Wood and cardboard are **(26)** … materials that light cannot travel through … is a **(27)** … material which allows light to pass through. Tissue paper is **(28)** … which will let some light through.

When an object blocks out the light a **(29)** … is formed. Shadow are **(30)** … at midday and … at the beginning and end of the day.

¥Alhamdulillahirobbil'aalamiin¥

LIVEWORKSHEETS