CREST Science Olympiad (CSO)
Worksheet *for*

Class 6

Worksheet on Measurements

1. **How can you avoid parallax errors when measuring length with a scale?**

   a. Hold the scale at an angle to the object.
   b. Look at the scale from below.
   c. Ensure the eye is directly above the measurement point.
   d. Use a broken scale for more accurate readings.

2. **Jake purchased a candy bar weighing 500 grams, while Amy purchased the same candy bar weighing 0.5 kilograms. Who has a greater amount of candy?**

   a. Jake
   b. Amy
   c. They have the same amount
   d. It cannot be determined from the given information

3. **Which of the following statements accurately describes the measurement of an irregular area?**

   a. The area of an irregular shape cannot be measured at all.
   b. The area of an irregular shape can be measured using graph paper.
   c. The area of an irregular shape can only be estimated by guessing.
   d. The area of an irregular shape is always equal to the area of a square.

4. **Which of the following represents the correct conversion between units of time?**

   a. 1 day = 24 minutes
   b. 1 year = 365 hours
   c. 1 century = 100 years
   d. 1 millennium = 1000 centuries

5. **Match the following measurement units with their corresponding quantities.**

	Column I		Column II
1.	mg	A.	Area
2.	Millenium	B.	Temperature
3.	Kelvin	C.	Time
4.	mm	D.	Mass
5.	km²	E.	Length

   a. 1:E, 2:C, 3:B, 4:D, 5:A
   b. 1:A, 2:C, 3:B, 4:D, 5:E
   c. 1:D, 2:C, 3:B, 4:E, 5:A
   d. 1:B, 2:E, 3:A, 4:C, 5:D

Answer Key

1. c - To avoid parallax errors when measuring length with a scale, it is important to ensure that the eye is directly above the measurement point. Parallax errors occur when the eye is not aligned with the scale and viewing angle, resulting in an inaccurate measurement.

2. c - To compare the amounts, we need to convert both measurements to the same unit. We know that 1 kilogram is equal to 1000 grams.
   Jake has 500 grams of the candy bar, which is equivalent to 0.5 kilograms (500 grams / 1000 grams per kilogram = 0.5 kilograms).
   Amy has 0.5 kilograms of candy bar.
   Both Jake and Amy have the same amount of candy.

3. b - When measuring the area of an irregular shape, one method is to use graph paper. The graph paper provides a grid with squares of known dimensions. By counting the number of squares covered by the irregular shape, an estimation of its area can be obtained.

4. c - 1 decade = 10 years and 1 century = 10 decades. So,
   1 century is equal to 100 years.

5. c -
   mg: Mass
   Millennium: Time
   Kelvin: Temperature
   mm: Length
   km²: Area

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