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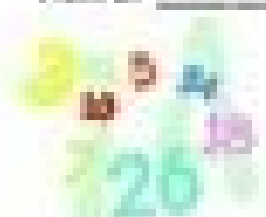
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Unit	Conversion Factor
1 m = 100 cm	1 cm = 0.01 m
1 kg = 1000 g	1 g = 0.001 kg
1 L = 1000 mL	1 mL = 0.001 L
1 km = 1000 m	1 m = 0.001 km
1 min = 60 s	1 s = 0.0167 min
1 h = 60 min	1 min = 0.0167 h
1 day = 24 h	1 h = 0.0417 day
1 week = 7 days	1 day = 0.1429 week
1 year = 12 months	1 month = 0.0833 year
1 century = 100 years	1 year = 0.01 century

Name: _____ Date: _____ Class period: _____



Unit: Dimensional Analysis **Answer Key** "One and Two Step Problems" - WS #1

Directions: Use dimensional analysis to perform the following calculations. Show K, U, and plant! Use correct sig figs and units!

- How many cm are equal to 1.45 m?

$$1.45\text{m} \times \frac{100\text{cm}}{1\text{m}} = 145\text{cm}$$

- How many kg are equal to 325 g?

$$325\text{g} \times \frac{1\text{kg}}{1000\text{g}} = 0.325\text{kg}$$

- How many mL are equal to .0024 L?

$$0.0024\text{L} \times \frac{1000\text{mL}}{1\text{L}} = 2.4\text{mL}$$

- How many km are equal to 1.55×10^4 m?

$$1.55 \times 10^4\text{m} \times \frac{1\text{km}}{1000\text{m}} = 15.5\text{km}$$

- How many mm are equal to 4.75×10^{-2} m?

$$4.75 \times 10^{-2}\text{m} \times \frac{1000\text{mm}}{1\text{m}} = 47.5\text{mm}$$

- How many kg are equal to 0.459 kg?

$$0.459\text{kg} \times \frac{1000\text{g}}{1\text{kg}} \times \frac{1\text{kg}}{1000\text{g}} = 0.459\text{kg}$$

- How many km are equal to 5.995 dm?

$$5.995\text{dm} \times \frac{1\text{m}}{10\text{dm}} \times \frac{1\text{km}}{1000\text{m}} = 0.0005995\text{km}$$

- How many mg are equal to 450 µg?

$$450\mu\text{g} \times \frac{1\text{g}}{1,000,000\mu\text{g}} \times \frac{1,000,000\text{mg}}{1\text{g}} = 450\text{mg}$$

- How many mm are equal to 0.003 dm?

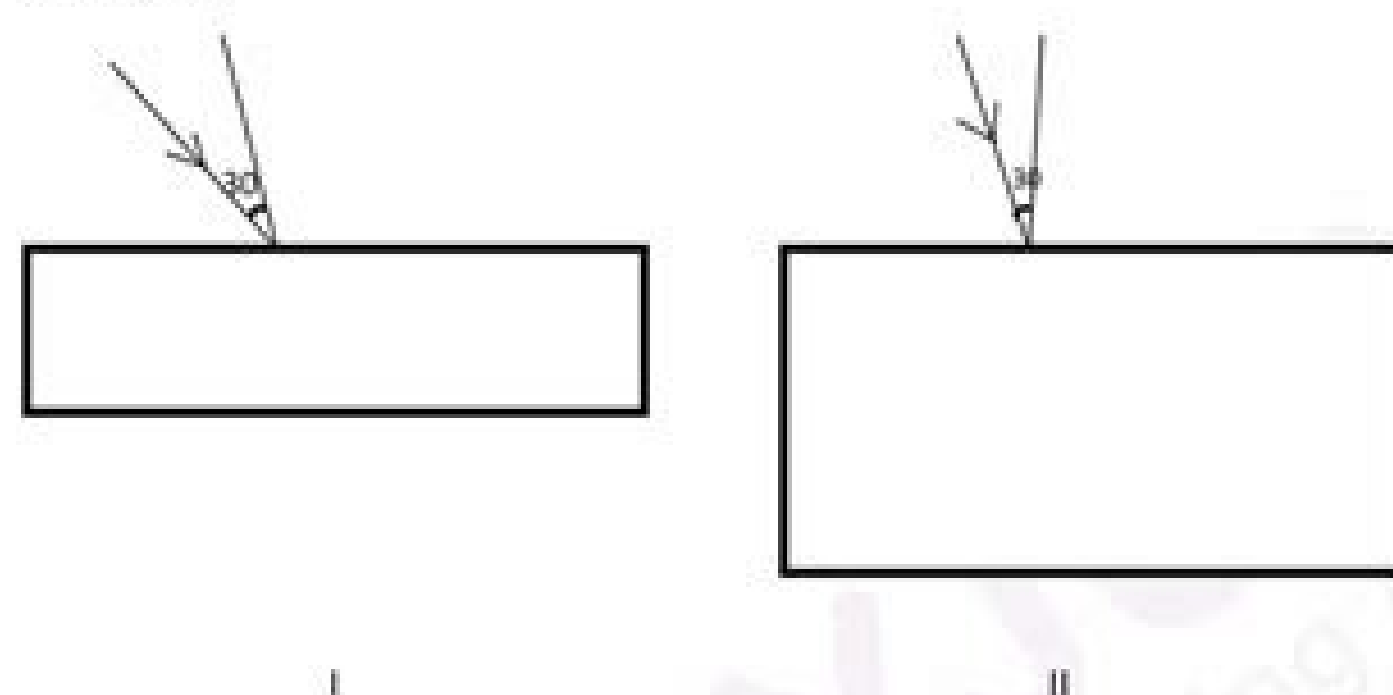
$$0.003\text{dm} \times \frac{1\text{m}}{10\text{dm}} \times \frac{1000\text{mm}}{1\text{m}} = 0.3\text{mm}$$

- How many ML are equal to 4.567×10^4 mL?

$$4.567 \times 10^4\text{mL} \times \frac{1\text{L}}{1000\text{mL}} \times \frac{1\text{ML}}{1,000,000\text{L}} = 4.567 \times 10^{-4}\text{ML}$$



- Which part of the embryo develops into shoot?
a) Plumule b) Radicle c) Cotyledon d) seed leaves
- Analogy refers to similarity in
a) morphology b) Origin c) Function d) Size
- Which of the following lenses would you prefer to use while reading small letters in a book
a) A convex lens of focal length 50 cm
b) A concave lens of focal length 50 cm
c) A convex lens of focal length 5 cm
d) A concave lens of focal length 5 cm
- A student carries out the experiment of tracing the path of a ray of light through a rectangular glass slabs for same radius of angle of incidence. The student reported the following observation



- Angle of emergence is equal to angle of incidence
- Lateral shift is grater for glass slab II
- Lateral shift in both cases are equal

The correct observation is

- I and II b) I c) I and III

- A student obtained the sharp image of a candle flame using a concave mirror of radius of curvature 20 cm and tabulated as follows.

Sl No	Object Distance in cm	Image distance in cm
I	15	30
II	60	13
III	20	35

In the above observation

- The image will be enlarged for the observation II
 - The observation III is wrong
 - Both I and II are correct
 - I is correct and II is wrong
- Blue colour of the sky and twinkling of stars are due to
a) Reflection and Atmospheric refraction of sunlight.
b) Scattering and Atmospheric refraction of sunlight.
c) Dispersion and scattering of sunlight.
d) Atmospheric refraction and scattering of sunlight.



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