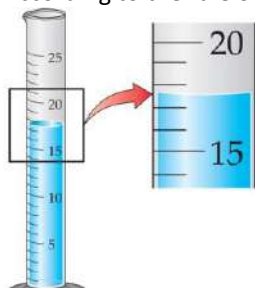Select the best answer for each questions

1.   **Which is the following is true about significant figures?**
a.   They help scientists easily handle very large numbers or very small numbers
b.   Significant figures do not change when converting units
c.   Significant figures indicate the precision of an instrument.
d.   B and C

2.   According to the rule of measured numbers what is the volume of the graduated cylinder?

a.   15 ml
b.   17.0 ml
c.   15.25ml
d.   17.5 ml

3.   **How many significant figures are in the number 0.9050?**
a.   3
b.   2
c.   5
d.   4

4.   **How many significant figures are in the number 2201?**
a.   3
b.   2
c.   1
d.   4

5.   **What is scientific notation?**
a.   A way that scientists easily handle very large numbers or very small numbers
b.   Indicates the precision of an instrument.
c.   A way express the uncertainty in the measurement
d.   A positive and negative number

6.   **Express the following in scientific notation: .0099**
a. 9.90×10^{-4}
b. 9.9×10^{-4}
c. 9.9×10^{3}
d. 9.9×10^{-3}

7.   **Express the following in scientific notation: 1800**
a. 1.8×10^{-4}
b. 1.8×10^{3}
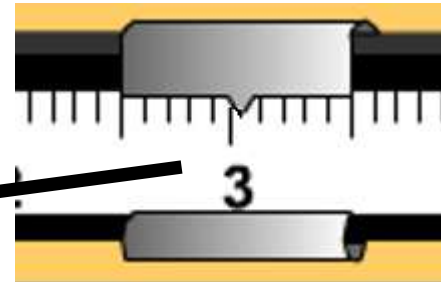c. 1.8×10^{-2}
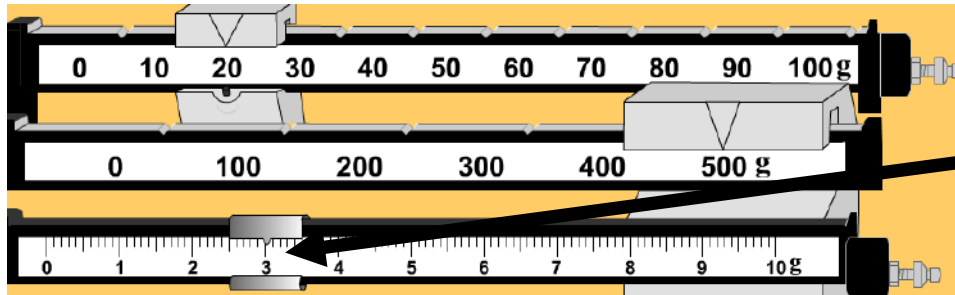d. 1.8×10^{-3}

8. **Express the following in standard notation: 7.3 x 10⁴**
a. 703000
b. 73000
c. .00073
d. 730000

9. **Express the following in standard notation: 2.6 x 10⁻⁴**
a. 26000
b. 26666
c. .00026
d. 0002.6

10. **What is the SI Unit for mass?**
a. Second
b. Liter
c. Meter
d. Gram

11. **Which below is the correct list of metric prefixes in order of largest to smallest?**
a. Kilo Mili Centi Deci BasicUnit Hecto Deka Hecto
b. Kilo Hecto Deka BasicUnit Deci Centi Mili
c. Mili Centi Deci BasicUnit Deka Hecto Kilo
d. King Henry Died Unexpectedly Drinking Chocolate Milk

12. **What is the correct abbreviation for Centimeter**
a. cl
b. cm
c. cmm
d. Km

13. **Convert 7.54 Kg to milligrams.**
a. 7540000 mg
b. 0.754 mg
c. 0.00754 mg
d. 0.00000754 mg

14. **Convert 633 mL to liters.**
a. 0.00633 L
b. 0.000633 L
c. 6.33 L
d. 0.633 L

15. **What is the round metal part of a triple beam balance called, where you place the object to be measured?**
a. Thumbscrew
b. Zero Mark
c. Plate
d. Pan

16. **What is the first thing you do when using a triple beam balance?**
a. Start with the largest slider. Move the slider until balance tips, move the slider back to the previous position, move to the next slider
b. Continue until the final slider until the balance reads zero
c. Move all three sliders so that they read 'zero'.
d. Read each of the sliders and add their weights together.

17. **Which is true about reading a graduated cylinder?**
a.   Read at the bottom of the meniscus
b.   Read at eye level
c.   Use clear liquids
d.   A and B

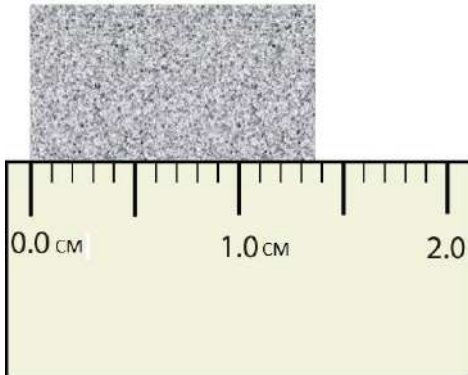18. **Which is the best measurement from the triple beam balance?**

a.   523.05 g
b.   253.50 g
c.   523.5 g
d.   253 g

19. **How many significant figures are there in the best measurement from the triple beam balance above?**
a.   3
b.   4
c.   5
d.   6

20. **Which is the most precise measurement from the meter stick in centimeters?**

a.   .0135 cm
b.   1.35 cm
c.   1.350 cm
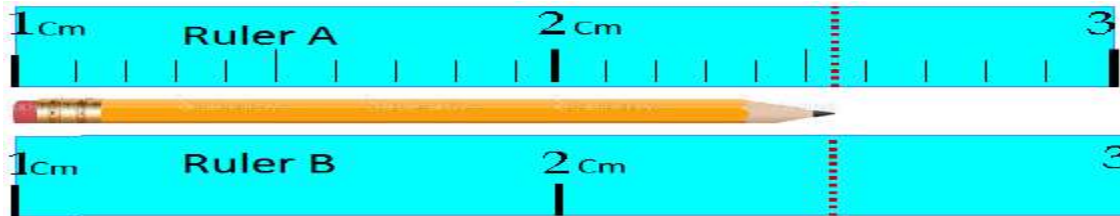d.   1.3 cm

21. **Convert the measurement above into Km**
a.   .000013
b.   .00000135
c.   .0000135
d.   130000.

22. **Represent the measurement above in Scientific notation**
a. 1.35×10^{-5}
b. 1.3×10^{5}
c. 1.35×10^{5}
d. 1.3×10^{-5}

Use the two rulers measuring the pencil to answer the questions below

23. **What is the most accurate measurement of the pencil on Ruler B**
a. 3.45 cm
b. 2.55 cm
c. 2.5 cm
d. 2 cm

24. **Which of the below is/are true about the measurement of the pencil on ruler A?**
a. The measurement of the pencil on ruler A is 2.55 cm
b. The measurement of the pencil on ruler A is 000255 km
c. The Scientific notation of the measurement of the pencil on ruler A is 2.55×10^{5}
d. A and C

25. **What is the SI Unit for Temperature?**
a. Fahrenheit *(Hahaha!! Ya right, silly Liberia)*
b. Celsius
c. Kelvin
d. All of the above

Convert the following

26. **50 ºC = _____?_____ ºF**
a. 122
b. 120
c. 10
d. 323

27. **149 ºF = _____?_____ ºC**
a. 300
b. 65
c. 100
d. 365

28. **273 ºC = _____?_____ ºK**
a.
b.
c.
d.