


الكلول بالمجلد جميعها صحيحة باذن الله ✨ ✨ ✨ والله يوفقم جميعاً ❤️

An object will have a zero acceleration if:

- only the speed is constant
 - only the direction is constant
 - both the speed and direction are changing
 - both the speed and direction are constant
- 

Three forces are: ($F_1 = 63 \text{ N}$, east), ($F_2 = 42 \text{ N}$, west) & ($F_3 = 13 \text{ N}$, west). Their resultant (R) is

- 24 N , east
- 79 N , east
- 8 N , west
- 8 N , east



Total questions in exam: 25 | Answered: 22

A cylinder of platinum-iridium, kept at the Bureau of weights and Measures in France, gives the standard of

- kilogram
- meter
- pound
- second

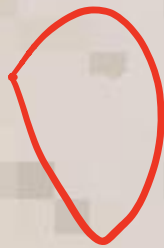
A

The dimensions of (mass/speed) is:

- ML^{-3}
- $ML^{-1}T$
- ML
- $ML^{-2}T$

The number of decimal places in $(0.012)\bar{3}$ is:

- 2
- 4
- 5
- 3



Question No. 24

Two forces are: ($F_1 = 90\text{ N}$, up) & ($F_2 = 90\text{ N}$, right). The magnitude of the resultant (R) is nearly.

- 0 N
- 90 N
- 180 N
- 127 N

Total questions in exam: 25 | Answered: 22

If r is a length, v is a speed and t is time, the equation $v = k/t^2 + r/t$ is dimensionally correct if k has the dimension of

- LT^{-2}
- LT^{-1}
- TL^2
- L

B

Question No. 21

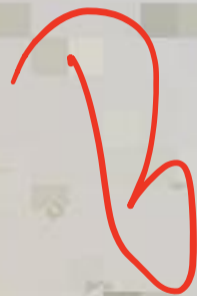
The percent uncertainty in the measurement $m = 22.5 \pm 0.5$ g is:

- 1%
- 2%
- 5%
- 3%

B

Example of a scalar is:

- weight
- distance
- displacement
- acceleration



Total questions in exam: 25 | Answered: 22

Question No. 23

The distance from Madinah to Riyadh is measured to be accurately 830 km. The number of significant figures in this measurement is.

- 1
- 2
- 3
- 4

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Number of marks: 1
Number of questions: 25

23 Answered

0 Not Viewed

1	2
15	16
21	23

In scientific notation we write the number 222.1 as:

• 2.221×10^2

• 0.221×10^2

• 22.21×10^2

• 2.221×10^3

A

In the SI system of units, the mass, length and time are, respectively, measured in:

- pound, meter and second
- kilogram, foot and second
- pound, foot and second
- kilogram, meter and second



Question No. 12

If r is a length, A is an area and V is a volume, the equation $A \cdot r^n = r^n / V$ is dimensionally correct if n equals:

- 6
- 6
- 5
- 5

B

$$A r = r^n / V$$

When making measurements, the result of subtracting 7.5 from 25.578 is correctly written as:

- 18.078
- 18.1
- 18
- 18.08

B

"Good precision" is an instrument's ability to give measurements that are:

- random
- always scattered
- repeatedly close to each other
- repeatedly far from each other



Of the following SI units, the only derived unit is:

- newton
- ampere
- meter
- kelvin

A

Consider that the average age of a human is 70 years and on average, the heart beats once every second.
During this lifetime, the heart approximately beats:

- 200 million beats
- 20 million beats
- 20 billion beats
- 2 billion beats



The dimensions of (area \times time) is:

- ML^2
- ML^3
- LT
- L^2T



A lake with approximately circular surface has an average radius $r = 0.25$ km and average depth $h = 5$ m.
The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

- 10^{12} L
- 10^7 L
- 10^9 L
- 10^5 L

Question No. 1

Two forces are: ($F_1 = 90 \text{ N}$, west) & ($F_2 = 120 \text{ N}$, south). Their resultant (R) is:

- (210 N, north of east)
- (30 N, south of west)
- (150 N, south of west)
- (150 N, south of east)



Total questions in exam: 25 | Answered: 22

If r is a length, v is a speed and t is time, the equation $v = k/t^2 + r/t$ is dimensionally correct if k has the dimension of:

- LT^{-2}
- LT
- TL^2
- L



Express 1000 in. in centimeters ($1 \text{ in.} = 2.54 \text{ cm}$):

- 394 cm
- 3940 cm
- 254 cm
- 2540 cm



Knowing that $1 \text{ ft} = 12 \text{ in.}$ and $1 \text{ in.} \approx 2.54 \text{ cm}$, a distance of 20 ft is equal to:

- 61000 cm
- 610 cm
- 6100 cm
- 61 cm

B

Question No. 20

Three forces are: ($F_1 = 21$ N, east), ($F_2 = 13$ N, east) & ($F_3 = 17$ N, east). Their resultant (R) is.

- 51 N, east
- 40 N, west
- 30 N, west
- 17 N, east

A

You bought a car for 90500 Saudi riyals (SAR). In order-of-magnitude this price is about:

- SAR 10^6
- SAR 10^5
- SAR 10^3
- SAR 10^4

10^5