فيزياء الميد الاول

2019

مريم جدو 💕 دعواتكم

Total questions in exam: **25** | Answered: **2**

Question No. 7

A⁻ A A⁺

For n1 = 0.6789, n2 = 0.067890, n3 = 0.607890, and n4 = 607.89, the number with equal significant figures are:

4 S.F   5 S.F   6 S.F   5 S.F

- ○ n1 and n2
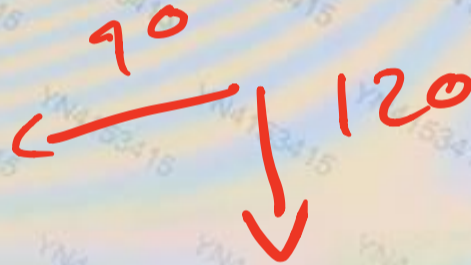- ○ n1 and n3
- ○ n2 and n4
- ○ n3 and n4

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Total questions in exam: 25 | Answered: 0

Question No. 1

Two forces are: (F1 = 90 N, west) & (F2 = 120 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)

$$90$$

$$120$$

$$\sqrt{90^2 + 120^2}$$

$$= 150$$

والاتجاه يكون محصور
بين المتجهين الأكبر قيمة نحو الأدنى

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Question No. 2

The dimensions of (mass/speed) is:

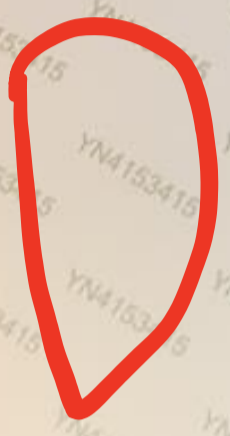- ML^{-3}
- $ML^{-1}T$
- ML
- $ML^{-2}T$

$$\frac{M}{LT^{-1}} = ML^{-1}T$$

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Question No. 3

Express 1000 in. in centimeters (1 in. = 2.54 cm):

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

1 in $\longrightarrow 2.54$

$1000 \longrightarrow x$

$(2.54)(1000)$
$= 2540 \, cm$

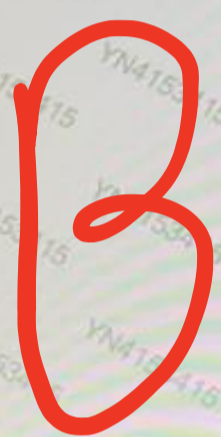Save & Next

Question No. 4

Example of a scalar is:

- weight
- distance
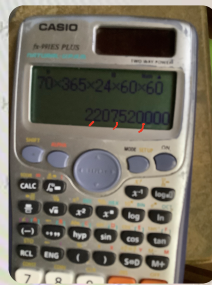- displacement
- acceleration

B

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Question No. 5

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

User YN4153415
Number of main questions 25
Number of questions 25

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

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Calculator

Notepad

Question No. 6

Knowing that 1 ft = 12 in. and 1 in. = 2.54 cm, a distance of 20 ft is equal to:

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

1st ———> 12 in
20 ——⤫——> X

240 in

1 in ———> 2.54 cm
240 ——⤫——> X

= 609.6 ≈ 610

B

Save & Next

Question No. 7

Three forces are: (F1 = 63 N, east), (F2 = 42 N, west) & (F3 = 13 N, west). Their resultant (R) is

- 24 N, east
- 79 N, east
- 8 N, west
- 8 N, east
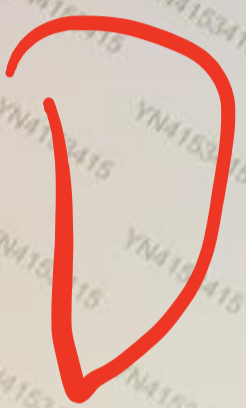
42 + 13 = 55

63 − 55 = 8 east

اتجه القوة الأكبر دايماً
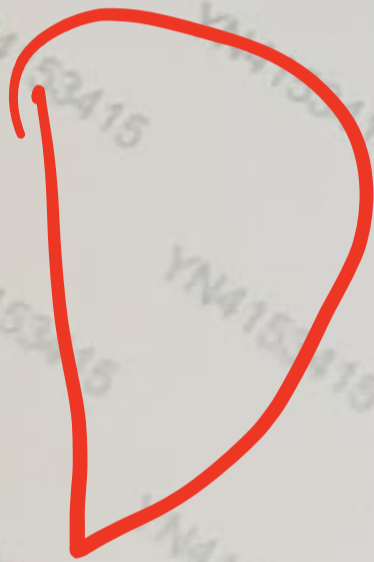
D

Question No. 9

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

Question No. 8

"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

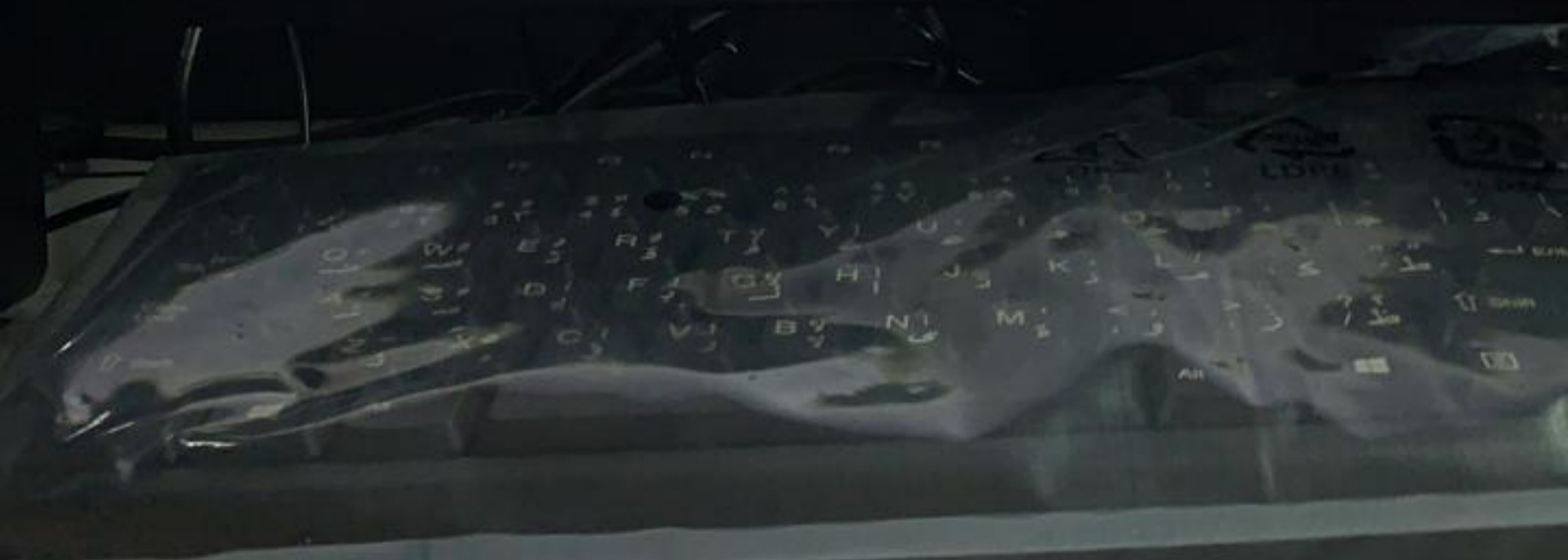Save & Next

Question No. 10

If one light-year (سنة ضوئية) is the distance light travels in 1 year, one year $\approx 3 \times 10^7$ s, and the speed of light in space is (3×10^8 m/s), one light-year is approximately: (distance = speed × time)

- 10^{10} m
- 10^{12} m
- 10^{16} m
- 10^{14} m

$$(3 \times 10^7) \times (3 \times 10^8)$$
$$= 9 \times 10^{15} \approx 10 \times 10^{15} \approx 10^{16}$$

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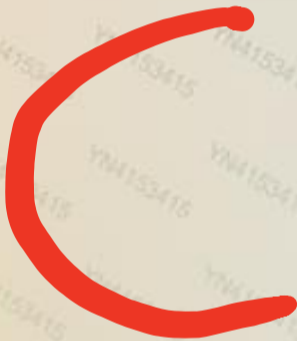Total questions in exam: 25 | Answered: 18

Question No. 11

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

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

$$9 \times 10^4 \approx 10^1 \times 10^4 \approx 10^5$$

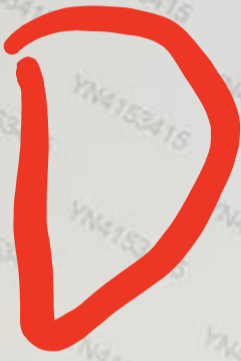Save & Next

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Total questions in exam: 25 | Answered: 18

Question No. 13

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

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Total questions in exam: 25 | Answered: 18

Question No. 14

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

Save & Next

Total questions in exam: 25 | Answered: 18

Question No. 12

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

- -6
- 6
- -5
- 5

$$L^2 . L^1 = L^n . L^{-3}$$

$$L^3 = L^n . L^{-3}$$

$$n - 3 = 3$$
$$n = 3 + 3$$
$$n = 6 \checkmark$$

$$L^3 = L^6 . L^{-3}$$
$$L^3 = L^{6-3} = L^3 \checkmark$$

B

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Total questions in exam: 25 | Answered: 18

Question No. 15

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

$r = 0.25_{km} = 250\underline{\underline{M}}$

$V = (3.14)(250)^2(5)$

$V = 981250\, m^3 \quad \overset{L}{\longrightarrow} \times 1000$

$= 981250000$

9×10^8

$= 10 \times 10^8$

$= 10^9 \checkmark$

Question No. 16

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

$$LT^{-1} = k \cdot T^{-2} + L \cdot T^{-1}$$

$$k = LT$$

$$= LT \cdot T^{-2} = LT^{-1} \checkmark$$

B

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Total questions in exam: 25 | Answered: 22

Question No. 17

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

- newton
- ampere
- meter
- kelvin

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Question No. 18

A cylinder of platinum-iridium, kept at the Bureau of weights and Measures in France, gives the standard of:
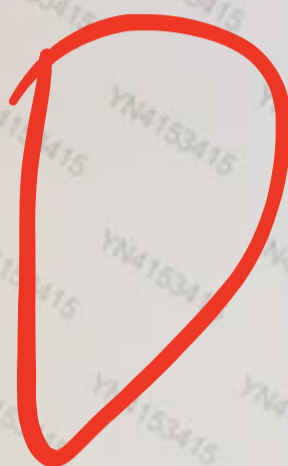
- kilogram
- meter
- pound
- second

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Question No. 19

The number of decimal places in (0.012) is:

- 2
- 4
- 5
- 3

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Total questions in exam: 25 | Answered: 23

Question No. 20

Three forces are: (F1 = 21 N, east), (F2 = 13 N, east) & (F3 = 17 N, east). Their resultant (R) is:

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

كلم يبقى في نفس الاتجاه! بجمعهم

$21 + 13 + 17 = 51$

A

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Question No. 21

The percent uncertainty in the measurement m = 22.5 ± 0.5 g is:

- ○ 1%
- ○ 2%
- ● 5%
- ○ 3%

$$\frac{0.5}{22.5} \times 100$$
$$= 2.22\% \sim 2\%$$

B

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Total questions in exam: 25 | Answered: 23

Question No. 22

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

- 18.078
- 18.1
- 18
- 18.08

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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:
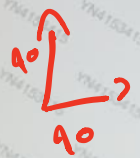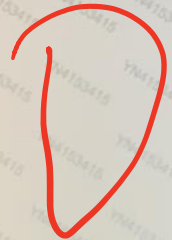
- ○ 1
- ◉ 2
- ○ 3
- ○ 4

User YN4153

Number of m
Number of qu

23 Answered

0 Not Visited

1	2
8	9
15	16
22	23

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Question No. 24

Two forces are: (F1 = 90 N, up) & (F2 = 90 N, right). The magnitude of the resultant (R) is nearly:
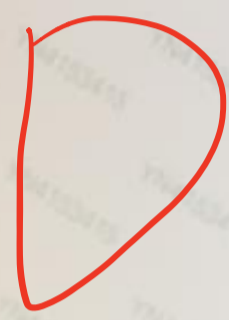
- 0 N
- 90 N
- 180 N
- 127 N

$$\sqrt{90^2 + 90^2} = 127$$

Save & Next

Question No. 25

The dimensions of (area×time) is:

- ML²
- ML²
- LT
- L²T

L^2T

Save & Next

Question No. 18

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

- kilogram
- meter
- pound
- second

Save & Next

Question No. 16

A car in linear motion accelerating at a rate of 2 m/s/s reaches a speed of 30 m/s in 5 seconds . speed is:

- ○ 25 m/s
- ○ 20 m/s
- ○ 10 m/s
- ○ 40 m/s

$$a = \frac{v_f - v_i}{t}$$

$$2 = \frac{30 - v_i}{5}$$

$$10 = 30 - v_i$$

$$v_i = 30 - 10$$

$$= 20 \text{ m/s}$$

B

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