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Question No. 24

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

- 1
- 3
- 2
- 4

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Question No. 25

An airplane of velocity ($v_1 = 800$ km/h, north) faces a wind of velocity ($v_2 = 60$ km/h, west)
The resultant velocity of the plane is:

- (802 km/h, south of west,
- (740 km/h, south of west)
- (802 km/h, north of west)
- (740 km/h, north of west)

Save & Next

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Question No. 16

Taking significant figures into account, the product $1.044 \times 10.0 \times 0.16 \times 0.130 \times 0.7$, is correctly written as:

- 0.1520064
- 0.2
- 0.15
- 0.15201

Total questions: 25 [Answered: 12]

Question No. 19

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

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

5	6
12	13
	20

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Question No. 18

A quantity that has a magnitude and no direction is called:

- scalar
- acceleration
- vector
- displacement

3	4	5
10	11	12
17	18	19
24	25	

Calculator	Instru
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HP Compaq LE1711

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

- kilogram
- pound
- meter
- second

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Que

A room's floor is made of 200 ceramic blocks, 30 cm × 20 cm each. The area of this room can be estimated as:

- 6 m²
- 24 m²
- 12 m²
- 18 m²

No. of Questions
Number of
12
0

1	2
8	9
15	16
22	23



Question No. 15

Which of the following is an SI unit?

- yard
- mole
- inch
- mile



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Question No. [redacted]

A 7.5-g diamond is weighed on a scale of 0.1-g smallest division. The weight that is correct within the scale's precision is:

- 7.2 g
- 6.7 g
- 7.4 g
- 7.9 g

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Total questions in exam: 25 | Answered: 12

a

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

- 6
- 5
- 6
- 5

Time
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1
8
15
22

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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 $(3 \times 10^8$ m/s), one light-year is approximately: (distance = speed \times time)

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



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Total questions in exam: 28 | Answered: 1

Question 1

The dimensions of (mass/volume) is:

- kg^3m^3
- ML^3
- ML^{-3}
- g^3m^3



10:55

HP Compaq LE1711

Total questions in exam: 25 | Answered: 20

Question No. 24



The thickness of a 1200-page book is about 1.9 inches. The thickness of a single sheet of this book can be estimated as:

- 0.04 mm
- 0.01 mm
- 0.8 mm
- 0.08 mm

[Save & Next](#)

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Total questions in exam: 25 | Answered: 20

Question No. 21

A⁻ A A⁺

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 $(3 \times 10^8$ m/s), one light-year is approximately: (distance = speed \times time)

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

Save & Next

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10.65.7.215

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22

Question No. 2

If the diameter of a human hair is 110 micrometers, this equals to:
(Hint: 1 mm = 1000 micrometers)

- 1.1 mm
- 0.11 mm
- 0.011 mm
- 0.0011 mm

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HP Compaq (E171)

Total questions in exam: 25 | Answered: 20

Question No. 18

If r is a length, A is an area and V is a volume, the equation $A \cdot r^n = r^2/V$ is dimensionally correct if n equals:

- 7
- 5
- 5
- 7

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10/05/2015

Total questions in exam: 25 | Answered: 20

Question No. 16

Using an instrument with cm and mm divisions to measure a certain length, we get a value of 1450.2 cm. Our measurement can then be written as:

- L = 1450.2 ± 0.1 cm
- L = 1450.2 ± 0.2 cm
- L = 1450.2 ± 1.0 cm
- L = 1450.2 ± 0.01 cm

[Save & Next](#)

Total questions in exam: 25 | Answered: 20

Question No. 8



A lake with approximately circular surface has an average radius $r = 0.5$ km and average depth $h = 10$ m. The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

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

[Save & Next](#)

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Question No. 24

The top of a hill is 1120 m above the sea level. In order-of-magnitude this height can be written as

- 10^2 m
- 10^3 m
- 10^4 m
- 10^5 m

Save & Next

Question No. 19

50 μL equals (1 micro (μ) = 10^{-6}):

- 0.000005 L
- 0.00005 L
- 0.005 L
- 0.0005 L

Question No. 20

The dimensions of (mass \times speed/time) is:

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

Save & Next

Question No. 19

50 μ L equals (1 micro (μ) = 10^{-6}):

- 0.000005 L
- 0.00005 L
- 0.005 L
- 0.0005 L

Save & Next

Total questions in exam: 25 | Answered: 15

Question No. 8

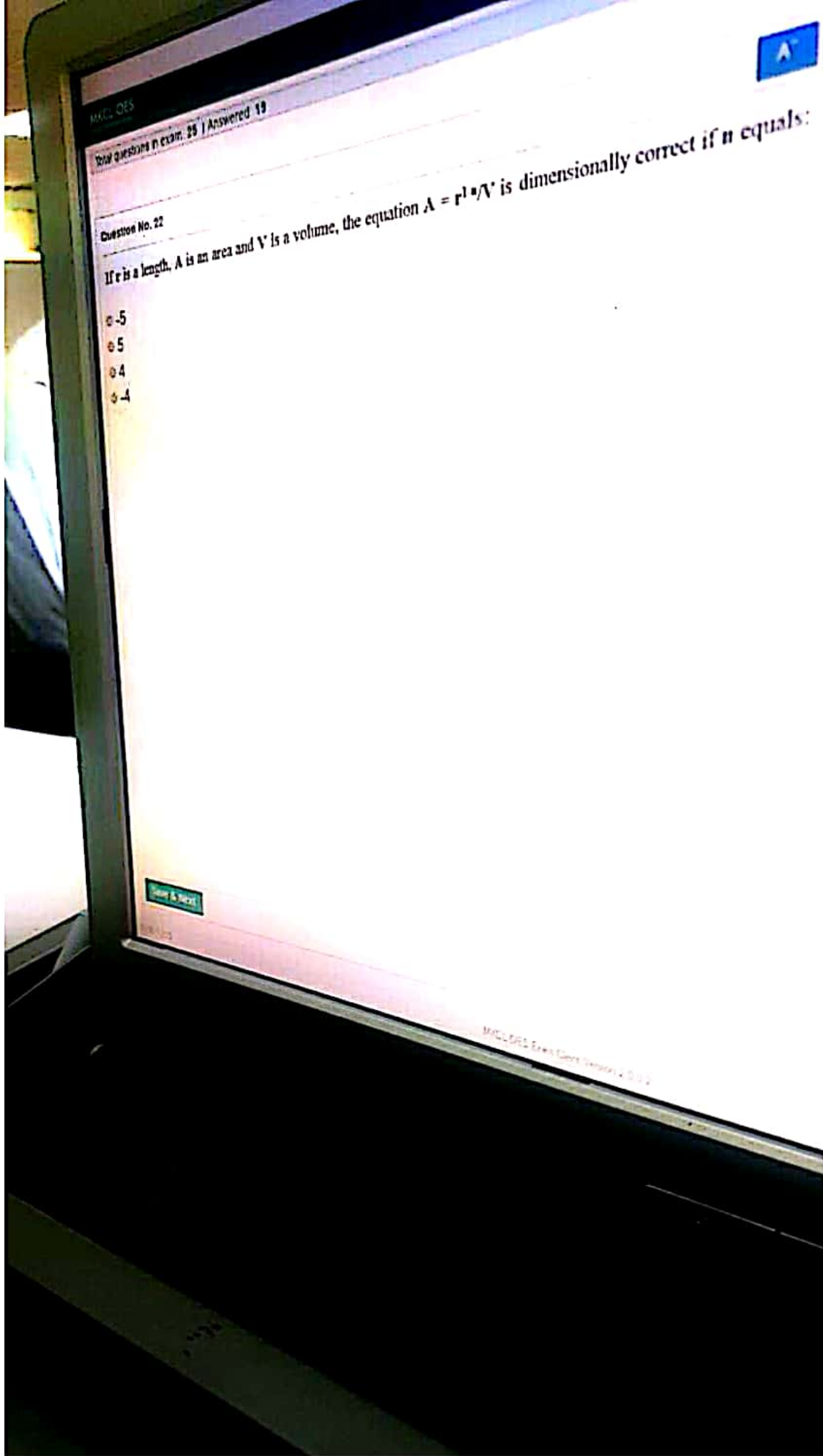
A lake with approximately circular surface has an average radius $r = 0.5 \text{ km}$ and average depth $h = 10 \text{ m}$. The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

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

Save & Next

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Total questions in exam: 29 | Answered: 19

Question No. 22

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

- 5
- 5
- 4
- 4

Submit & Next

Question No. 18

Taking significant figures into account, the product $1.044 \times 10.0 \times 0.16 \times 0.130 \times 0.7$, is correctly written as:

- 0.1520064
- 0.2
- 0.15
- 0.15201

Mark & View

Question No. 17

Which of the following is NOT an SI unit?

- mole
- foot
- candela
- kg

[Skip & Next](#)

Question No. 3

The frequency of radiation of cesium atoms is used to give the standard of

- inch
- kilometer
- second
- kilogram

SAVE & NEXT

Question No. 15

A vector is represented by:

- an arrow
- a square
- a triangle
- a straight line

Save & Next

Question No. 16

A lake with approximately circular surface has an average radius $r = 0.5$ km and average depth $h = 10$ m.
The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

- 10^9 L
- 10^{12} L
- 10^{15} L
- 10^7 L

Save & Next

Question No. 17

Which of the following is NOT an SI unit?

- mole
- foot
- candela
- kg

[Save & Next](#)

A⁻ A A⁺

Question No. 18

Taking significant figures into account, the product $1.044 \times 10.0 \times 0.16 \times 0.130 \times 0.7$, is correctly written as:

- 0.1520064
- 0.2
- 0.15
- 0.15201

Save & Next

Calculator

Notepad

HP Compaq LE771

Question No. 19

50 μL equals (1 micro (μ) = 10^{-6}):

- 0.000005 L
- 0.00005 L
- 0.005 L
- 0.0005 L

Save & Next

Question No. 20

The dimensions of (mass \times speed/time) is:

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

Save & Next

Question No. 24

The top of a hill is 1120 m above the sea level. In order-of-magnitude this height can be written as:

- 10^3 m
- 10^6 m
- 10^1 m
- 10^2 m

Save & Next

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HP Compaq [E771]



Question No. 21

A train travelling in a straight line at an average speed of 150 km/h for 40 min covers a distance of:

- 3.75 km
- 225 km
- 150 km
- 100 km

Save & Next

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Question No. 22

If r is a length, A is an area and V is a volume, the equation $A = r^{1-n}/V$ is dimensionally correct if n equals:

- 5
- 5
- 4
- 4

Save & Next

HP Compaq LE7711

MKCL OES Exam Client Version 2.0.0.2

Question No. 1

427 cm² to m²: (1 m² = 10000 cm²)

- 0.0427 m²
- 4.27 m²
- 42.7 m²
- 0.427 m²

Save & Next

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Question No. 25

A quantity that has a magnitude and no direction is called:

- scalar
- displacement
- acceleration
- vector

[Save & Next](#)



Question No. 21
A train travelling in a straight line at an average speed of 150 km/h for 40 min covers a distance of:

- 3.75 km
- 225 km
- 150 km
- 100 km

Save & Next

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Question No. 24

The top of a hill is 1120 m above the sea level. In order-of-magnitude this height can be written as:

- 10^3 m
- 10^6 m
- 10^1 m
- 10^2 m

Save & Next

MKCL OES Exam Client Version 2.0.0.1

HP Compaq [E771]

Question No. 23

The number of decimal places in (0.0100) is:

- 2
- 5
- 4
- 3

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QUESTIONS

Question No. 22

If r is a length, A is an area and V is a volume, the equation $A = r^{1-n}/V$ is dimensionally correct if n equals:

- 5
- 5
- 4
- 4

Save & Next

HP Compaq LE7711

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Question No. 13

The number of significant figures in the numbers $A = 7700$ and $B = 0.00770$ are, respectively:

- 4 for A and 4 for B.
- 4 for A and 2 for B.
- 4 for A and 5 for B.
- 2 for A and 3 for B.

Save & Next

1/25/2015

A⁻

A

A⁺

Question No. 14

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
- 127 N
- 180 N
- 90 N

Save & Next

Question No. 8

A⁻ A

When we use a protractor of 1° smallest divisions, the uncertainty is approximately equal to

- 0.1°
- 5°
- 1°
- 10°

A⁻ A A⁺

Question No. 12

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

- TL
- L
- T
- LT

Save & Next

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A

A⁺

Question No. 14

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
- 127 N
- 180 N
- 90 N

Save & Next

Question No. 15

A vector is represented by:

- an arrow
- a square
- a triangle
- a straight line

Save & Next

Question No. 13

The number of significant figures in the numbers $A = 7700$ and $B = 0.00770$ are, respectively:

- 4 for A and 4 for B.
- 4 for A and 2 for B.
- 4 for A and 5 for B.
- 2 for A and 3 for B.

Save & Next

1/25/2015

Question No. 8

Four forces are: ($F_1 = 70$ N, up), ($F_2 = 110$ N, up), ($F_3 = 30$ down) and ($F_4 = 50$ down). The magnitude of their resultant (R) is:

- 0 N
- 150 N
- 100 N
- 200 N

Save & Next

Question No. 10

An object is pulled vertically up with two ropes. If the tension in the ropes are 330 N and 326 N, its horizontal component is:

- 0 N
- 330 N
- 4 N
- 656 N

Save & Next

Question No. 11

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

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

Save & Next



Question No. 7

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

Save & Next

Question No. 8

In scientific notation we write the number 1230 as:

- 123×10^3
- 1.23×10^4
- 1.23×10^3
- 0.123×10^3

Save & Next

10:55:7215

Question No. 5

The dimensions of (area \times time) is:

- ML⁻³
- L²T
- LT
- ML⁻¹

Save & Next

TIME 7:21E

Question No. 4

A length of 997.8 mm is equal to:

- 0.9978 m
- 99.78 m
- 0.09978 m
- 9.978 m

[Save & Next](#)

0/25 (0%)

MKCL OES Exam Client Version 2019.02

Question No. 1

427 cm² to m²: (1 m² = 10000 cm²)

- 0.0427 m²
- 4.27 m²
- 42.7 m²
- 0.427 m²

Save & Next

18057215



Question No. 8

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

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

Save & Next

10:05:22 AM

Question No. 3

The frequency of radiation of cesium atoms is used to give the standard of

- inch
- kilometer
- second
- kilogram

SAVE & NEXT

Total questions in exam: 25 | Answered: 6

Question No. 5

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

- LT^{-2}
- L/T
- T
- LT^{-1}

$$v = kt + v/t$$

Save & Next

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Speed

Total questions in exam: 25 | Answered: 0

Question No. 2

The number of SI base quantities is.

- 3
- 7
- 9
- 5

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Exam Client Version 2.0.0.2

Q. No. 1

In scientific notation we write the number 1230000 as:

- 12.3×10^7
- 1.23×10^6
- 0.123×10^8
- 12.3×10^5

Save & Next

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MKCL OES Exam Client Version

HP L1710

Total questions in exam: 25 | Answered: 23

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When two vectors do not act in exactly the same or opposite direction, their resultant can be found using:

- Area rule
- Right-hand theorem
- Circle rule
- Parallelogram rule

Save & Next

HP L1710

Considering order of magnitude, the number 11201 can be written as

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

Save & Next

10 10 64 240

MKCL OES Exam Client Version 2 0 0 2

HP L1710



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

- 18.1
- 18.078
- 18
- 18.08

Save & Next

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HP L1710

Knowing that 1 mile = 1609 m, 98 km is nearly equivalent to:

- 0.61 miles
- 98 miles
- 6.1 miles
- 61 miles

Save & Next

10 10 64 240

MKCL OES Exam Client Version 2 0 0.

HP L1710

Three forces are: ($F_1 = 134\text{ N}$, right), ($F_2 = 17\text{ N}$, left) and ($F_3 = 43\text{ N}$ left). The magnitude of their resultant (R) is:

- 160 N
- 74 N
- 210 N
- 17 N

The SI unit of temperature is the:

- Kelvin
- Joule
- Watt
- Fahrenheit

Save & Next

19/04/2020

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HP L1710

A length of 997.8 mm is equal to:

- 9.978 m
- 0.9978 m
- 0.09978 m
- 99.78 m

Save & Next

10 64 240

MKCL OES Exam Client Versi

HP L1710

An atom's radius is 10^{-10} m. This equals, (1 nano = 10^{-9} , 1 micro (μ) = 10^3 nano, 1m = 10^6 μ m):

- 1 nm
- 1 μ m
- 0.1 μ m
- 0.1 nm

Save & Next

10.10.64.240

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P L1710

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

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

Save & Next

10 64 240

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HP L1710

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

- ampere
- newton
- meter
- kelvin

Save & Next

10 10 64 240

MKCL OES Exam Client Version 2.0.0.2

HP LI710



The number of decimal places in (0.0100) is:

- 3
- 2
- 4
- 5

Save & Next

10.10.64.240

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HP L1710

Qn No. 1

A concentration of 114 micrograms/milliliters ($114 \mu\text{g/mL}$) is equivalent to:

- 0.114 g/L
- 0.0114 g/L
- 114 g/L
- 1.14 g/L

Save & Next

10 10 64 240

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HP L1710

If r is a length, A is an area and V is a volume, the equation $A = r^{1-n}/V$ is dimensionally correct if n equals:

- 4
- 5
- 4
- 5

$$A = r^{1-n} / V$$

Total questions in exam: 25 | Answered: 8

For $n_1 = 0.6789$, $n_2 = 0.067890$, $n_3 = 0.607890$, and $n_4 = 607.89$, the number with equal significant figures are:

- n_1 and n_2
- n_2 and n_4
- n_3 and n_4
- n_1 and n_3

Save & Next

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Total questions in exam: 25 | Answered: 9

User : MC4

Number of
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9 Answers

7 Not Vis

An object starts moving uniformly from rest in straight line and reaches 30 m/s in 5 seconds. Its acceleration is:

- 6 m/s/s
- 25 m/s/s
- 27 m/s/s
- 30 m/s/s

Save & Next

10.10.64.2:10

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HP L1710

An airplane of velocity ($v_1 = 800 \text{ km/h}$, north) faces a wind of velocity ($v_2 = 60 \text{ km/h}$, west). The resultant velocity of the plane is:

- (802 km/h, north of west)
- (802 km/h, south of west)
- (740 km/h, south of west)
- (740 km/h, north of west)

Save & Next

Total questions in exam: 25 | Answered: 7

Significant figures are the digits in a number that are:

- unknown
- uncertain
- not important
- reliably known

Save & Next

10 10 64 240

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HP L1710

Total questions in exam: 25 | Answered: 6

A quantity that has a magnitude and no direction is called:

- vector
- scalar
- acceleration
- displacement

Save & Next

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MKCL OES Exam Client Version 2 0 0 2

HP L1710

The dimensions of (time/volume) is:

- TL⁻²
- TL⁻³
- TL³
- TL⁻¹

Save & Next

MKCL OES Exa

10.64.240

The dimensions of (mass/speed) is:

- ML⁻¹T
- ML³T
- ML
- ML⁻²T

Save & Next

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10.10.64.240

IP L1710

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

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

Save & Next

0.64.240

MKCL OES Exam Client Version 2.0.0.2

Total questions in exam: 25 | Answered: 0

Question No. 1

The dimensions of (length \times speed/area) is

- T⁻¹
- T⁻³
- T⁻⁴
- T⁻²

Knowing that $1 \text{ ft} = 12 \text{ in.}$ and $1 \text{ yard (yd)} = 3 \text{ ft.}$ how many yards are there in 720 in.?

- 20 yd
- 36 yd
- 200 yd
- 12 yd

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9	
15	16
	23

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Version 2002

HP L1710

The frequency of radiation of cesium atoms is used to give the standard of.

- kilogram
- inch
- second
- kilometer

10 10 64 2

HP LI710

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