

Name: Harry S. Truman

Section Number

1	1	9	0	0
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PHY2048 QUIZ 11

Please Print Clearly

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Name: Harry S. Truman
UFID:

3	3	2	0	6	0	6	8
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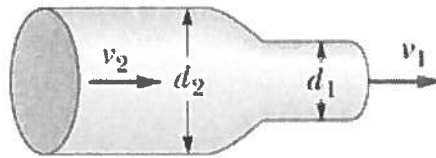
Section Number

1	4	9	0	0
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1. A planet with mass $M = 8 \times 10^{23}$ kg and a radius $R = 1.5 \times 10^6$ m has an atmosphere with a constant air density. Find the height of the atmosphere in kilometers if at the surface of the planet the pressure is $p_0 = 124$ kPa and the air density is $\rho_0 = 2.2$ kg/m³.

Hint: Calculate the acceleration of gravity g_p at the surface of the planet and assume that it remains constant throughout the atmosphere.

2. Water flows through a horizontal pipe and then out into the atmosphere at rate of 0.1 liters per second. The diameters of the left and right sections of the pipe are 5.0 cm and 3.0 cm. The pressure on the right section of the pipe is $p_1 = p_{\text{atm}}$. What is the gauge pressure on the left section of the pipe $p_{2,g} = p_2 - p_{\text{atm}}$ in Pa? Assume that the density of the water is 1000 kg/m^3 and note that $1 \text{ liter} = 10^{-3} \text{ m}^3$.



Name: F. D. R.

Section Number

1	1	9	0	0
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Name: F D Roosevelt

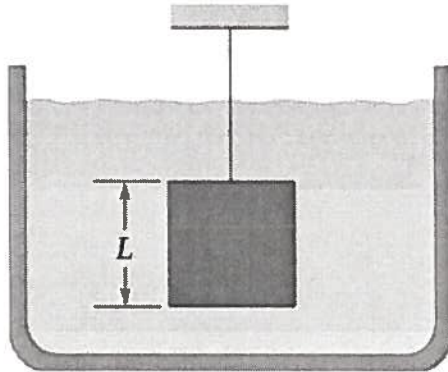
Section Number

UFID:

89797090

11900

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: Herbert Hoover

Section Number

1	1	3	0	0
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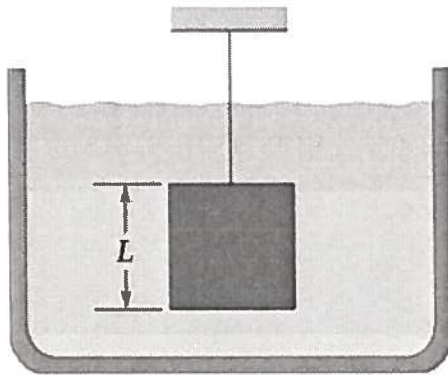
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UFID:

9 8 4 7 0 2 6 6

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Name: Calvin Coolidge

Section Number

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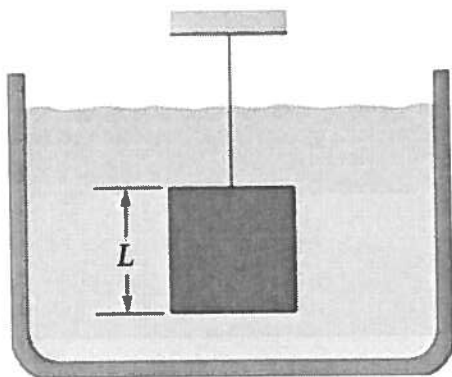
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6 8 9 0 9 3 6 2

Section Number

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Name: Warren G. Harding

Section Number

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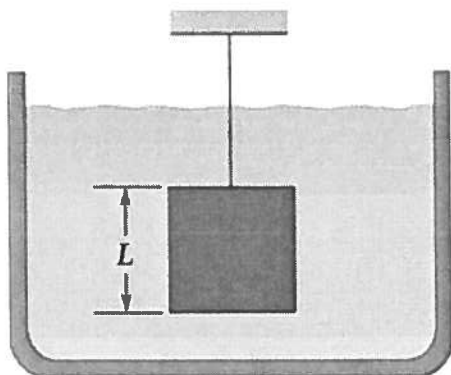
Name: W G Harold
UFID:

3	2	3	7	2	8	1	6
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Section Number

1	1	3	0	0
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Name: Woodrow Wilson

Section Number

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Name: W. Wilson

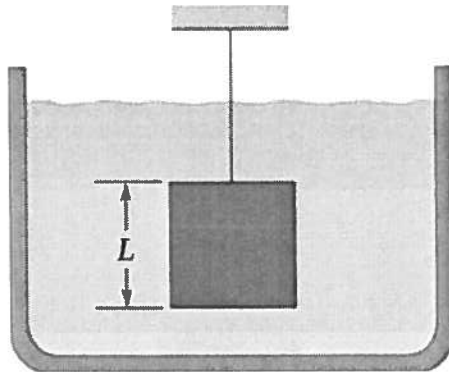
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1 4 0 6 2 1 2 2

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Name: W H Taft

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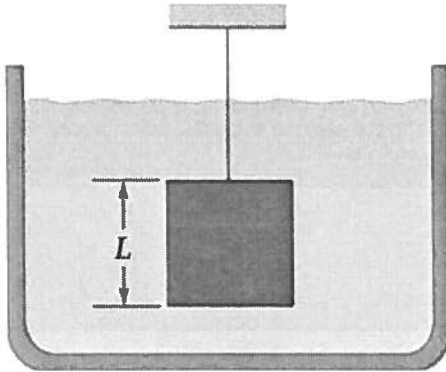
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7 0 9 5 1 4 8 6

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Name: Theo Roosevelt

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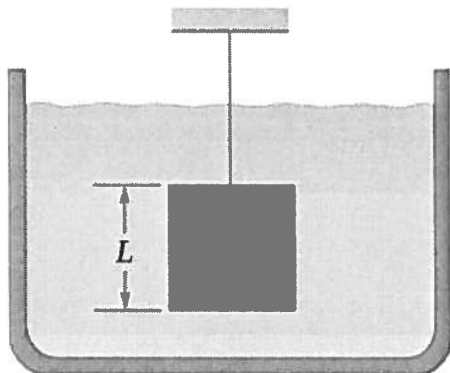
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9 2 7 0 3 2 2 1

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Name: William McKinley

Section Number

1	1	8	5	0
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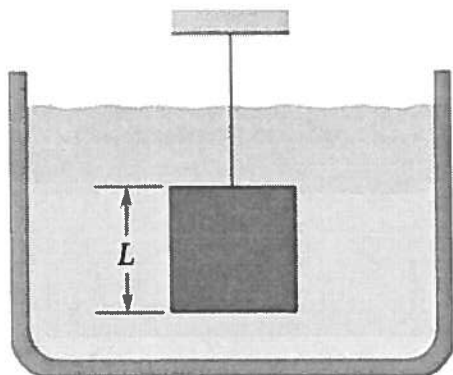
Name: W. McKinley
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6	2	7	4	0	5	7	8
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Name: Ben Harrison

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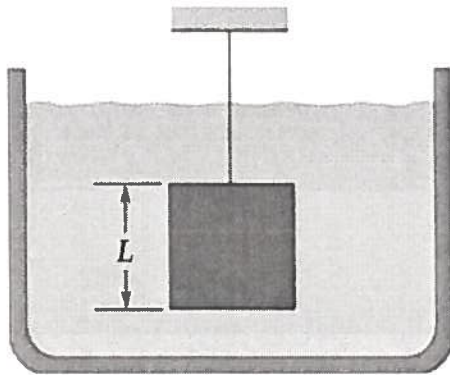
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1	1	8	5	0
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2	0	5	3	0	4	6	3
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Name: Grover Cleveland

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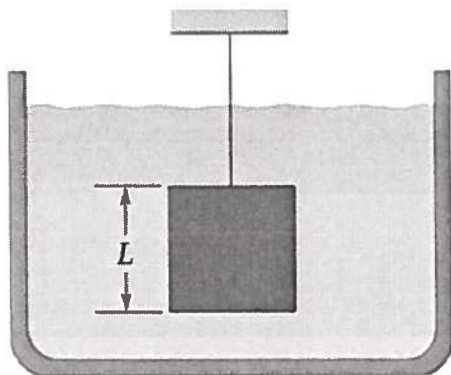
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7 2 1 5 9 5 6 0

1 1 8 5 0

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Name: Chester Alan Arthur

Section Number

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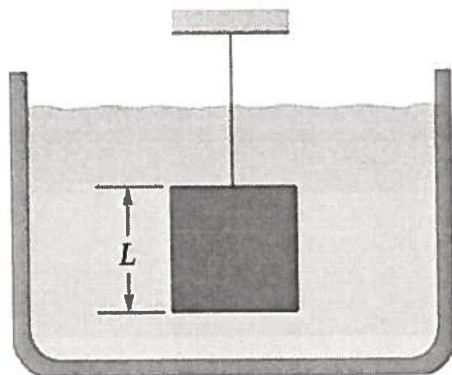
Section Number

UFID:

81016302

11850

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



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Name: James Garfield

Section Number

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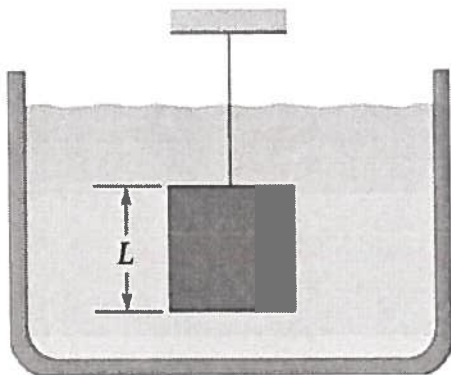
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UFID:

1 5 4 8 6 9 1 9

1 1 8 5 0

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Name: Rutherford B. Hayes

Section Number

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Name: R B Hayes

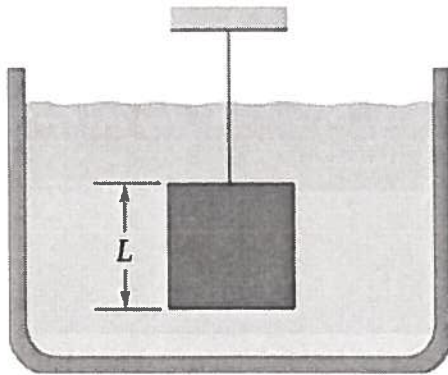
Section Number

UFID:

9 1 3 2 0 5 7 3

1 1 8 5 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: Ulysses S. Grant

Section Number

1	1	8	50
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PHY2048 QUIZ 11

Please Print Clearly

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Name: Ulysses Grant

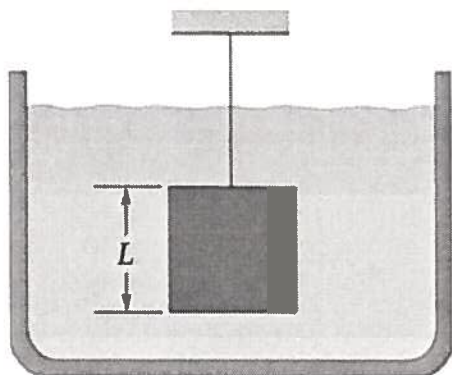
UFID:

6	1	3	6	6	5	0	5
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Section Number

1	4	8	5	0
---	---	---	---	---

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: Andrew Johnson

Section Number

1	1	8	5	0
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PHY2048 QUIZ 11

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Name: A Johnson

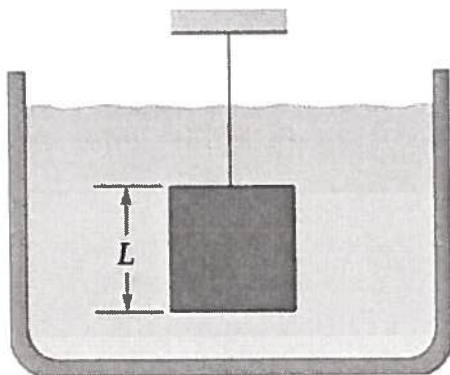
UFID:

4 0 8 8 9 1 2 9

Section Number

1 1 8 5 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: Abraham Lincoln

Section Number

1	8	5	0
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PHY2048 QUIZ 11

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Name: A. Lincoln

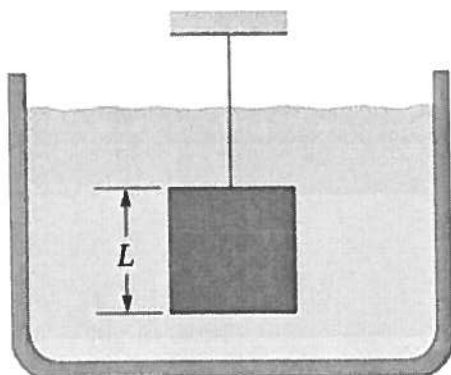
Section Number

UFID:

11830

59750498

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: James Buchanan

Section Number

1	1	8	5	0
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PHY2048 QUIZ 11

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Name: J. Buchanan

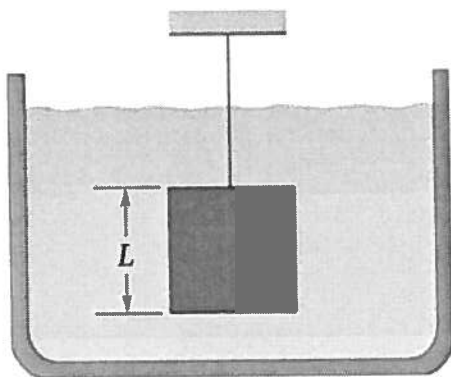
Section Number

UFID:

14640759

11250

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$\ln 1 + \ln 2 + \ln 3 = \ln(1+2+3) = \ln 6$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\left(\frac{1}{2}\right)! = \sqrt{\frac{\pi}{4}}$$

Name: F Pierce

Section Number

1	1	8	5	0
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PHY2048 QUIZ 11

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Name: Frank Pierce

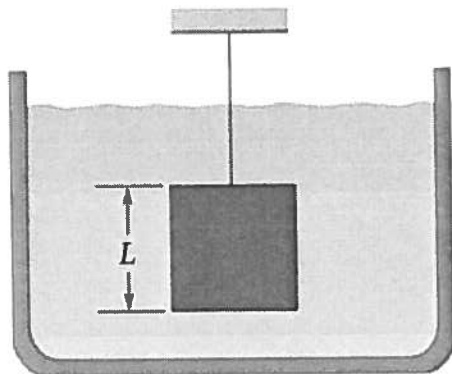
Section Number

UFID:

4 5 9 9 7 4 8 3

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1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$1^2 + 1^2 = 0^2$$

drawing not to scale

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$9_{\oplus}^2 = 100$$

Name: M. Fillmore

Section Number

1	1	8	5	0
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PHY2048 QUIZ 11

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Name: M Fillmore

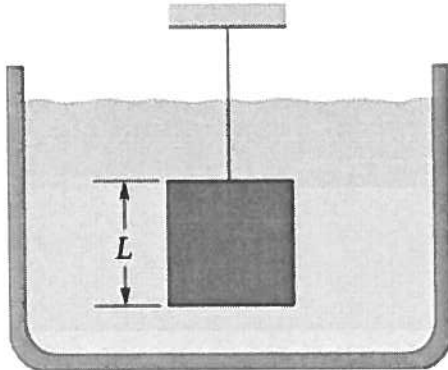
Section Number

UFID:

45997483

11850

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$[\pi] = [\pi]$$

Name: Jack Taylor

Section Number

1	1	2	0	0
---	---	---	---	---

PHY2048 QUIZ 11

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Name: Z. Taylor

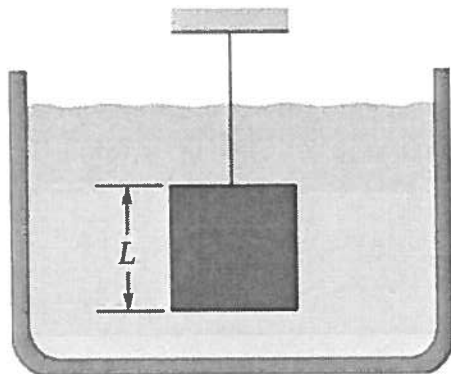
Section Number

UFID:

2 3 9 9 8 4 4 2

1 1 8 0 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$e^{x+y} = e^x + e^y$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\{x | x \neq x\} \subseteq \{x | x \neq x\}$$

Name: James Knox Polk

Section Number

1	1	/	8	0	0
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PHY2048 QUIZ 11

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Name: James Knox Polk

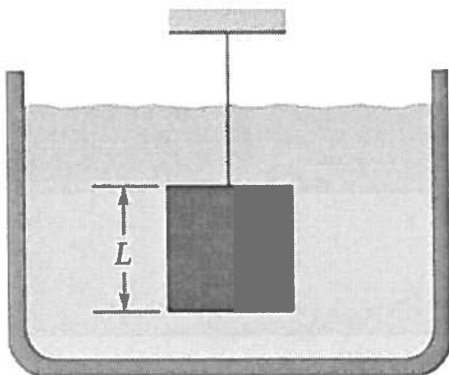
Section Number

UFID:

99802193

11800

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

Name: J. Tyler

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: J. Tyler

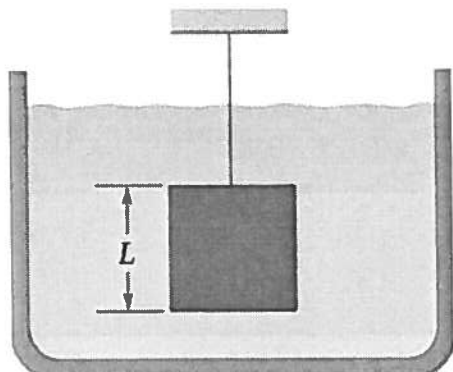
Section Number

UFID:

7 7 0 8 8 8 6 1

1 1 8 8 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$\pi = 4$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$g_{\phi} = 10$$

Name: W. H. Harrison

Section Number

1	1	8	0	0
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Name: William Herrison

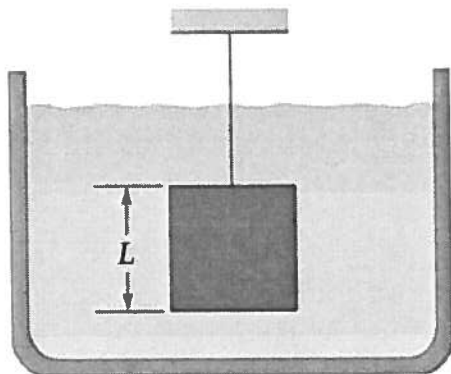
Section Number

UFID:

1	1	8	0	0
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2	4	6	8	7	7	3	1
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1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$+ \infty^T = x8$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$(a+b)^2 = a^2 + b^2$$

$$\frac{d}{dx} (e^x) = x e^{x-1}$$

Name: Martin V. Buren

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: M.V. Bureh

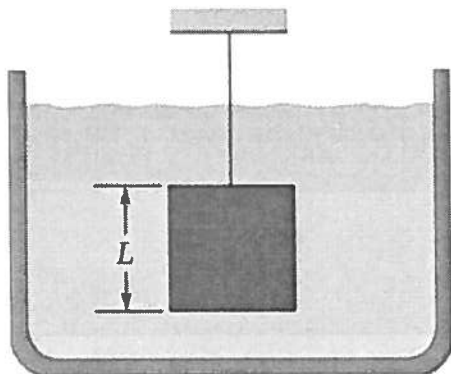
Section Number

UFID:

6 8 8 6 5 1 8

1 / 8 0 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$0 = 1$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$17^2 + 19^2 + 23^2 + 29^2 = 2020$$

Name: Andrew Jackson

Section Number

1	1	8	00
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PHY2048 QUIZ 11

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Name: A. Jackson

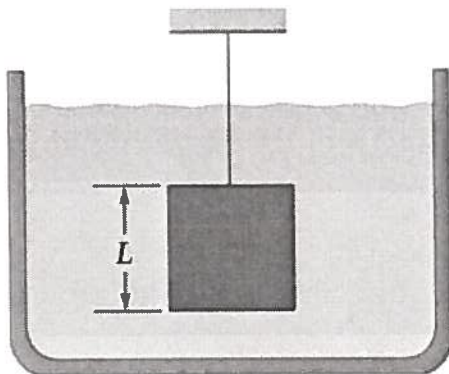
Section Number

UFID:

2 9 9 5 9 7 7 3

1 / 8 0 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$e^{\pi} = \pi^e = 9$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$y = ce^{at}$$

Name: JOHN QUINCY ADAMS

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: John Quincy Adams

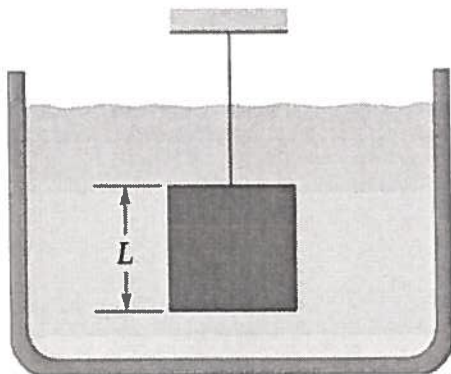
Section Number

UFID:

11800

39258415

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$(A)^{-1} = V$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\pi = \sqrt{g \oplus}$$

Name: James Monroe

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

Please Print Clearly

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Name: James Monroe

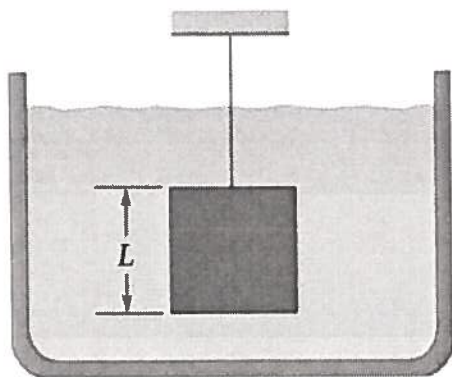
Section Number

UFID:

74349699

11800

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$1 = 1$$

$$1 = 1^2$$

$$e^{2\pi i} = e^{4\pi i}$$

$$\Rightarrow (e^{2\pi i})^i = (e^{4\pi i})^i$$

$$e^{-2\pi} = e^{-4\pi}$$

$$\Rightarrow -2\pi = -4\pi$$

$$\Rightarrow 1 = 2$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\begin{aligned} \cancel{1}^2 & 1^1 = 1 \\ \text{and } 2^2 &= 2 \\ \Rightarrow 3^2 &= 6 \end{aligned}$$

Name: James Madison

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: James Mackay

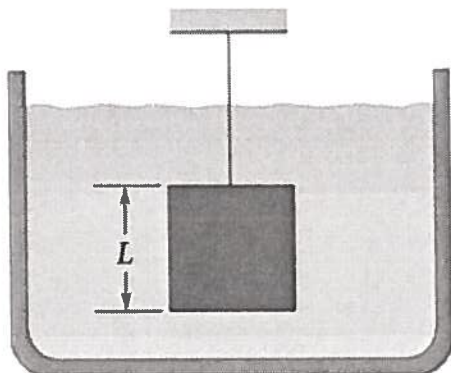
Section Number

UFID:

5 2 3 7 3 1 6 8

1 1 8 2 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$n=0 \quad 0^0 = 0! = 1$$

$$n=1 \quad 1^1 = 1! = 1$$

Assume true for $n=k$

$$k^k = k! \quad (1)$$

For $n=k+1$:

$$(k+1)^{(k+1)} = (k+1)!$$

substitute k with $k+1$ in (1):

$$(k+1)^{k+1} = (k+1)!$$

QED

$$n^n = n!$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$f(x) = 3x^2$$
$$f'(x) = \overset{\text{yeet}}{\leftarrow} 3x^{\textcircled{2}} = 6x$$

Name: Thomas Jefferson

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: Thomas Jefferson

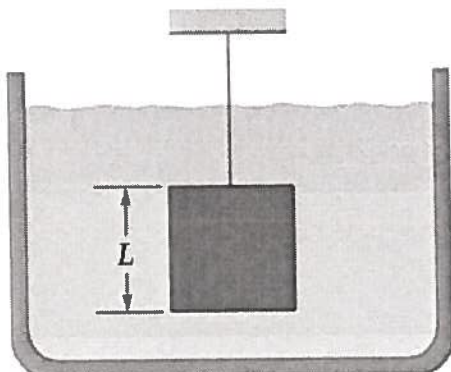
Section Number

UFID:

22021201

1	1	9	0	0
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1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$\text{kilogram} = \text{kg} = 1000 \text{ g}$$

$$\text{instagram} = \text{ig} = \sqrt{-1} \text{ g}$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\int \sqrt{\tan x} dx = \dots \text{ trivial}$$

Name: John Adams

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: John Adams

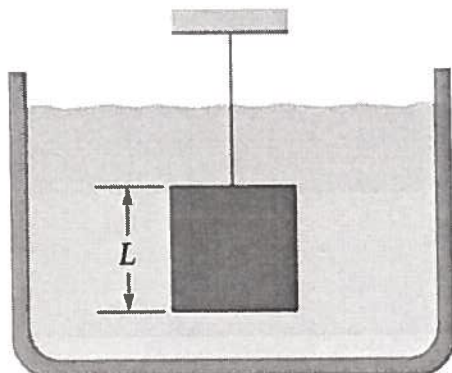
Section Number

UFID:

3 6 8 3 9 1 8 2

1 1 8 0 0

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m^3 . The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$x = 2$$

$$2x = 4$$

$$2x - x^2 = 4 - x^2$$

$$x(2 - x) = (2 + x)(2 - x)$$

$$x = 2 + x$$

$$0 = 2 \quad \therefore$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$3! = 3 \dots 2 \cdot 1$$

$$3! = \int_{R_+} x^3 e^{-x} dx$$

Name: George Washington

Section Number

1	1	8	0	0
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PHY2048 QUIZ 11

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Name: George Washington

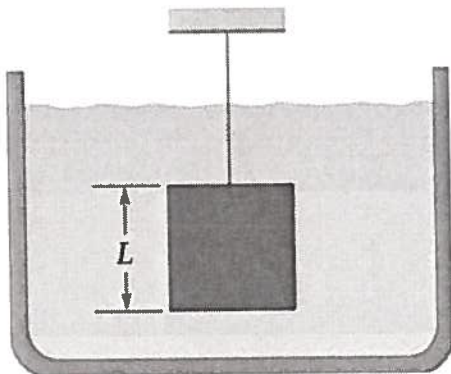
UFID:

79396380

Section Number

11800

1. In the figure below a cube of edge length $L = 0.500$ m and mass m is suspended by a rope in an open tank of liquid of density 1025 kg/m³. The tension of the rope is 1000 N. Find the mass m of the box in kg.



$$a + 1 + 5 = 2 + 2 + 2 + a$$

$$a = a$$

$$0 = 0$$

$$\Rightarrow \frac{0}{0} = 1$$

2. The water flowing through a 1.6 cm (inside diameter) pipe flows out through two 0.8 cm pipes. The speed of the water in the two smaller pipes is 12 cm/s and 18 cm/s respectively. What is the speed of the water in cm/s through the 1.6 cm pipe?

$$\frac{1}{n} s_{in} x = s_{ix} = 6$$