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Ltd. Solution:

$F_{net} = F_T + F_g$

$ma = F_T + mg$ F_T

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$$\begin{aligned} &= ma + mg \\ &= (0.50 \text{ kg}) (+0.80 \\ &\text{m/s}^2) + (0.50 \\ &\text{kg}) (9.8 \text{ m/s}^2) \\ &F_T = +5.3 \text{ N.} \end{aligned}$$

Statement: The tension in the string is 5.3 N.

(c) Given: $m = 0.50 \text{ kg}$; $g = -9.8 \text{ m/s}^2$; $a = -0.92 \text{ m/s}^2$

Required: F_T

Analysis: In

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this situation,
 $F_{\text{net}} = ma$.

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[on232x5ge010]

E = PtSolution:

Convert time to
seconds to get
the answer in

joules:3600

s!t = 792 000

s!t = 220 h " .

!E = (35 W) (792

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$$000 \text{ s}) = 2.772 \text{ "}$$

$$107 \text{ W} \times 2.772 \text{ s} =$$

$$2.772 \text{ " } 107 \text{ J}$$

(two extra
digits carried)

To find the
answer in
kilowatt hours,
convert from
joules:

$$2.772 \text{ J} \div 3600 =$$

$$0.00077 \text{ kWh}$$

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[N]; Dd 2 = 600
m [S] Given: Dd
1 = 0176504338 Δ
Required: Dd TFN
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Solution Let Δx_1

your initial

displacement

from your home

to the store be Δx_1

and Δx_2 your

displacement

from the store

to your friend's

house be Δx_2 .

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Physics > 200 m
[N]; $D_2 = 600$
m [S] Given: $D_1 = 0176504338$ >
Required: D_{TFN}
C01-F04-OP11USB
> > > NGI
Analysis: D_{TCO}
5 D_1 D_2 >
Solution: Figure
6 shows > the
given vectors,
with > the tip of
 D_1 6th pass

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Pass joined to
the tail of > Dd
2.

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analysis is an

important tool

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Solution: t_m
 $= t_s \cdot \sqrt{1 - \frac{v^2}{c^2}}$
 $c \cdot 2 = 1.0 \text{ s} \cdot \sqrt{1 - (0.95c)^2}$
 $2t_m = 3.2 \text{ s}$

Statement: The
observer on
Earth finds that

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arrive every 3.2 s. 3. (a) Given:
 $L_s = 2.5 \text{ m}$; $L_m = 2.2 \text{ m}$; $c = 3.0 \times 10^8 \text{ m/s}$

Required: v

Analysis: $L_m L_s = 1! v^2 c^2 L_m L_s$
 $'^2 = 1! v^2 c^2$
 $v^2 c^2 = 1! L_m L_s$
 $2 v=c 1! L_m L_s$

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Solution: $v = c \frac{L}{L_0}$

$L = L_0 \sqrt{1 - \frac{v^2}{c^2}}$

$\frac{L}{L_0} = \sqrt{1 - \frac{v^2}{c^2}}$

$\left(\frac{L}{L_0}\right)^2 = 1 - \frac{v^2}{c^2}$

$\frac{L^2}{L_0^2} = 1 - \frac{v^2}{c^2}$

$v = c \sqrt{1 - \left(\frac{L}{L_0}\right)^2}$

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Solution: $V_p = I_p R$

$V_s = I_s R$

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(200V) (5A) 10A V
 $V_s = 100V$

Statement: The voltage of the secondary circuit is 100 V. (b)

Substitute the value given for V_p and the value found for V_s in part (a) into the relevant

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to transformers

to find the

ratio of the

number of

windings: $V_p V_s = N_p N_s$

$N_s = \frac{V_p N_p}{V_s}$

$N_s = \frac{200 \text{ V} \cdot 100}{100 \text{ V}}$

$N_s = 200$

$N_s = 200$

$N_s = 200$

$N_s = 200$

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11.9: Circuit
Analysis
Tutorial 1
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1, page 532 1.
Step 1. Find the
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total resistance
of the circuit.

Start by finding

the equivalent

resistance for

the parallel

part of the

circuit. $\frac{1}{R}$

parallel = $\frac{1}{R_2}$

+ $\frac{1}{R_3}$ $\frac{1}{R}$

parallel = $\frac{1}{30.0 \Omega + 1}$

$\frac{1}{30.0 \Omega}$

$\frac{1}{R_{\text{parallel}}}$

= 15.0Ω

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Solution: $F_{\text{net}} = F_K - ma = \mu_K F_N$
 $ma = \mu_K mg$ $a = \mu_K g$
 $g = (0.005)(9.8 \text{ m/s}^2)$ $a = 0.049 \text{ m/s}^2$

The acceleration of the puck is 0.049 m/s^2 . Next calculate the final speed of the puck.

$$v^2 = v_1^2 + 2a!d$$
$$v^2 = v_1^2 + 2a!d = ($$

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$$1.2 \text{ m/s}^2 + 2(0.04 \text{ m/s}^2)(58.5 \text{ m})$$
$$v^2 = 21.1 \text{ m/s}$$

Statement: The speed of the puck after travelling

*Section 4.3:
Solving Friction
answer to part
(b) would ...*

1.3 m/s²) (mm
11 a ++ mm 2 m

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$m_1 = 0.20 \text{ kg}$
 $m_2 = 0.40 \text{ kg}$
 $F_T = ?$
 $a = ?$

1. $F_T = m_1 a$
 $F_T = (0.20 \text{ kg}) a$
 $F_T = 0.20 a$

2) $F_T = m_2 a$
 $F_T = (0.40 \text{ kg}) a$
 $F_T = 0.40 a$

$0.20 a = 0.40 a$
 $0.20 a - 0.40 a = 0$
 $-0.20 a = 0$
 $a = 0$

(equation
(equation m / s
 $+ 9.8 + 2(1) !$

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Weight / Force

Solution: ! F

net = $m! a = (69\text{kg}$

) (2.1m/s^2) [forwa

rd]! F net

= 140N [forward]

Statement: The

net force is 140

N [forward]. (b)

Since the

basketball is

falling due to

gravity, ! $a = !$

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$$g = 9.8 \text{ m/s}^2$$

[down]. Given: m

$$= 620 \text{ g} = 0.62$$

$$\text{kg}; \quad ! \quad g = 9.8$$

$$\text{m/s}^2 \quad [\text{down}]$$

Required: F_{net}

Analysis:

According to

Newton's second

law, $F_{\text{net}} = m!$

$a = m! \quad g$ Solution:

$$! \quad F_{\text{net}} = m! \quad g = ($$

$$0.62 \text{ kg}) (9.8 \text{ m/s}^2)$$

$$[\text{down}]! \quad F_{\text{net}}$$

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hyperthermia
involves the
medical
innovation of
selectively
heating up the
malignant cells
of the body in a
controlled way.
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distinguishable
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physiological characteristics of cancer cells and their immediate environment are the focus of the targeted energy delivery of this treatment. This heterogenic heating concept breaks with the homogeneous

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nature of
conventional
hyperthermia,
where an
isothermally
equal
temperature is
applied to the
large surface
area of a solid
tumor. Due to
its selectivity,
the new concept
enables the

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