

1. Check -> Worksheet - Certainty and Precision Rules
 2. Assignment -> Digits, Rounding and Rules
-> Topics
-> Period 1 - Thursday
Period 4 - Wednesday
 3. Defining Equations
 4. Rearranging Equations - To Be Continued
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5. Worksheet - Rearranging Equations
 6. Metric Conversions
 7. Worksheet - Metric Conversions

Assignment

1. Digits:

certain digits (✓)
uncertainty digits (?)
significant digits

751.0 m

cd = (✓) = 3
ud = (?) = 1
SD = 4

1.2060 × 10³ kg

cd = 4
ud = 1
SDs = 5

0.0010 mg

cd = 1
ud = 1
SD = 2

2. Rounding:

Round to 4 SDs. 127.436 g

127.4 g

Round to 5 SDs. 127.436 g

127.44 g

Certainty Rule (x or ÷)

0.0722 cm × 6.5 cm = 0.4693 cm²

3SD 2SD 2SD

0.21 cm²

Precision Rule (+ or -)

4.775 g + 14.62 g + 227.8 g = 346.875 g

3 2 1 346.9 g

Physics 112

Monday, April 10/17

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1. Return Midterm Marks
2. Return FA from Last Week
3. Check -> Worksheets re 2nd Law Problems
4. Worksheets - First and Second Law Problems
5. Newton's Third Law of Motion - Tomorrow
6. SA - U2 S2 - Topics
- Thursday *mc prob.*

7. U2 S3 - Introduction to Momentum
8. Momentum
9. Worksheet - Momentum
10. Impulse
11. Impulse - Momentum Theorem

Formative Assessment - Force Problem

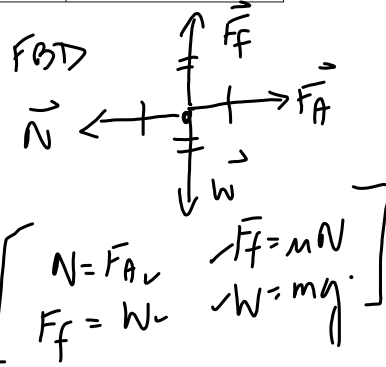
A student on planet Luvfizics presses a 1.7 kg textbook against a vertical wall. The student applies a force of 51 N in order to prevent the textbook from sliding down the wall. What is the acceleration due to gravity on Luvfizics? Include a labelled FBD for the textbook.

Note:

rest → 1st Law.

Surfaces	μ_s	μ_k
textbook and wall	0.284	0.196

Sketch
 $m = 1.7 \text{ kg}$
 $F_A = 51 \text{ N}$
 $\mu = 0.284$
 $\vec{g} = ?$



$$W = mg$$

$$F_f = mg$$

$$\mu N = mg$$

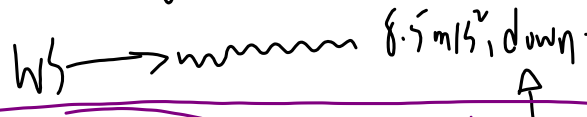
$$M F_A = mg$$

$$g = \frac{\mu F_A}{m}$$

$$g = 8.5 \text{ m/s}^2$$

$$\vec{g} = -8.5 \text{ m/s}^2$$

$$\vec{g} = 8.5 \text{ m/s}^2, \text{ down}$$



$$F_A - \mu mg = ma$$

$$F_A = \mu mg + ma$$

$$F_A = m(\mu g + a)$$

$$\frac{F_A}{\mu g + a} = m$$

$$W = mg$$

Physics 122

Monday, April 10/17

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1. Return -> Midterm Marks
 2. Check -> Worksheets - 2D Collisions
 3. SA - U1S4 - 2D Collisions

- Thursday 2 Probl. → [1 collision
1 explosion]

4. U2 S1 - Circular Motion
5. Uniform Circular Motion
6. Centripetal Acceleration
7. Centripetal Force
8. Formulas
9. Worksheet - Circular Motion
10. Unbanked and Banked Curves
11. Worksheet - Unbanked and Banked Curves