Stacking Paper

What's the Question?
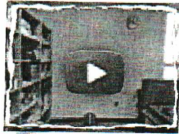
MAKE SOME PREDICTIONS

TOO LOW	BEST GUESS	TOO HIGH

Given Information & Workspace:

The comparison of **height** to **number of packs of paper** would be considered a:	RATIO or RATE	Justify your reasoning:

Represent the relationship between **height** and **number of paper packs** as:

How close were you? ▶

Rate Given In Video:

$$\frac{HEIGHT}{NUMBER\ OF\ PACKS}$$

=

Unit Rate:

$$\frac{HEIGHT}{1\ packs}$$

=

HOW MANY TO REACH CEILING?

$$\frac{HEIGHT}{NUMBER\ OF\ PACKS}$$

Decimal:

=

Percent

$$\frac{HEIGHT}{100\ packs}$$

=

Percent

%

Independent	Dependent
0	
10	
20	
30	
40	
50	
60	

Label Dependent Variable
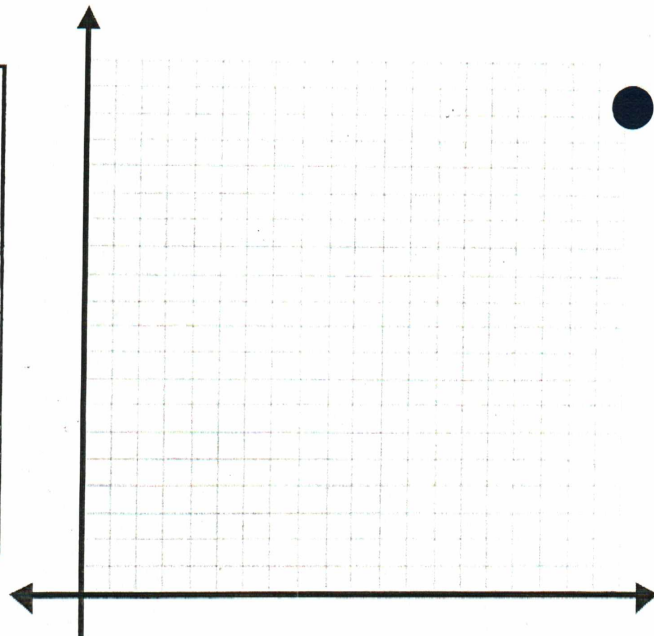
1. A stack of paper packages have a height of 375.25 cm. Complete the **proportion** and **solve** to determine **how many packages of paper** should be in that stack.

$$\frac{24.75 \text{ cm}}{5} = \frac{\text{HEIGHT}}{\text{NUMBER OF PACKS}}$$

5. A stack of 6 packs of paper of a different brand has a height of 48 cm.

a) How tall would a stack of 21 packages be?

b) Create an **equation** to represent the relationship between **height** and **number of packs** of this brand.
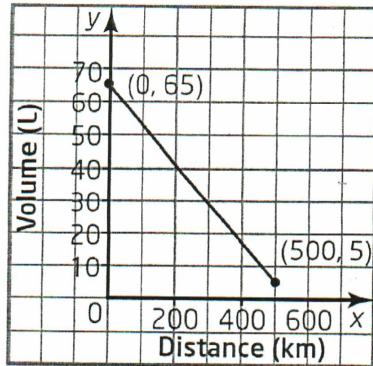
Fuel Remaining

Task: The graph shows the volume of gasoline remaining in a car's tank.

Identify:

Independent Variable:	Dependent Variable:

1. Create a table of values.

Distance (km)	Volume (L)
0	65
100	
200	
300	
400	
500	
600	

Graph: Volume (L) on y-axis (0 to 70), Distance (km) on x-axis (200, 400, 600). Points marked (0, 65) and (500, 5).

3. Is this a **proportional relationship**? How do you know?

4. Write the **rate of change** in the following forms and **write a sentence** explaining the meaning relative to this scenario.

Write as a:	What Does It Mean?
Fraction	
Fraction out of 100	
Percent	
Decimal	