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Name: \_\_\_\_\_

Date: \_\_\_\_\_ Pd: \_\_\_\_\_

## Slope-Intercept: Word Problems HOMEWORK

*Determine the SLOPE-INTERCEPT equation ( $y=mx+b$ ) for the following word problems.*

1) Alex started with \$40 in his account. He receives \$10 every month for allowance. Write an equation that determines the amount of money Alex has after  $x$  months.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

2) The Ewa Makai PAL basketball team currently has 14 points on the scoreboard. They score an average of 8 points every quarter. Write an equation that determines the amount of points they have after  $x$  quarters.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

3) An Ewa Makai student has \$25 on his McDonald's gift card. He uses about \$2.50 every week. Write an equation that determines how much money has left after  $x$  weeks.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

4) A hiker has already hiked 4 miles up Mt. Everest. He hikes at a rate of about 3 miles every 2 hours. Write an equation that determines how far he has hiked after  $x$  hours.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

5) A diver is 134 feet under water. She swims toward the surface and rises about 8 feet every 20 seconds. Write an equation that determines how far she is from the surface after  $x$  seconds.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

6) An airplane is currently 30000 feet in the air. It is descending at a rate of 2000 feet per second. Write an equation that determines how high the plane is after  $x$  seconds.

Slope (m): \_\_\_\_\_ y-int(b): \_\_\_\_\_

Slope-Int ( $y=mx+b$ ) : \_\_\_\_\_

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