Example:

y=8x+5

a. Rewrite to show slope as fraction: $y=\frac{8}{1}x+5$

b. Slope $=\frac{8}{1}$

c. y−intercept $=5$

d. Interpret: Every time x changes by 1, the value of y
　　　　changes by 8.

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1) y=9x+8

a. Rewrite to show slope as fraction: y=――— x + _____

b. Slope = ――—

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
　　　　changes by _____.

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2) y=5x+2

a. Rewrite to show slope as fraction: y=――— x + _____

b. Slope = ――—

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
　　　　changes by _____.

3) y=5x+4

a. Rewrite to show slope as fraction: $y = \underline{} x + \underline{}$

b. Slope = $\underline{}$

c. y−intercept = $\underline{}$

d. Interpret: Every time x changes by $\underline{}$, the value of y
        changes by $\underline{}$.

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4) y=7x+8

a. Rewrite to show slope as fraction: $y = \underline{} x + \underline{}$

b. Slope = $\underline{}$

c. y−intercept = $\underline{}$

d. Interpret: Every time x changes by $\underline{}$, the value of y
        changes by $\underline{}$.

5) y=3x+4

a. Rewrite to show slope as fraction: y=―― x + ____

b. Slope = ――

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

6) y=3x+6

a. Rewrite to show slope as fraction: y=―― x + ____

b. Slope = ――

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

7) y=4x+3

a. Rewrite to show slope as fraction: $y = \underline{\quad} x + \underline{\quad}$

b. Slope $= \underline{\quad}$

c. y−intercept $= \underline{\quad}$

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

8) y=7x+6

a. Rewrite to show slope as fraction: $y = \underline{\quad} x + \underline{\quad}$

b. Slope $= \underline{\quad}$

c. y−intercept $= \underline{\quad}$

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

9) y=5x+6

a. Rewrite to show slope as fraction: $y = \frac{}{} x +$ ____

b. Slope = $\frac{}{}$

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

10) y=7x+7

a. Rewrite to show slope as fraction: $y = \frac{}{} x +$ ____

b. Slope = $\frac{}{}$

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
changes by _____.

11) y=2x+3

a. Rewrite to show slope as fraction: y=——x + ____

b. Slope = ——

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
        changes by _____.

12) y=x+7

a. Rewrite to show slope as fraction: y=——x + ____

b. Slope = ——

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
        changes by _____.

13) y=7x+1

a. Rewrite to show slope as fraction: $y = \underline{\hspace{1cm}} x + \underline{\hspace{1cm}}$

b. Slope = $\underline{\hspace{1cm}}$

c. y−intercept = $\underline{\hspace{1cm}}$

d. Interpret: Every time x changes by $\underline{\hspace{1cm}}$, the value of y
            changes by $\underline{\hspace{1cm}}$.

14) y=9x+1

a. Rewrite to show slope as fraction: $y = \underline{\hspace{1cm}} x + \underline{\hspace{1cm}}$

b. Slope = $\underline{\hspace{1cm}}$

c. y−intercept = $\underline{\hspace{1cm}}$

d. Interpret: Every time x changes by $\underline{\hspace{1cm}}$, the value of y
            changes by $\underline{\hspace{1cm}}$.

15) y=4x+9

a. Rewrite to show slope as fraction: y=——x + ____

b. Slope = ——

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
           changes by _____.

16) y=3x+1

a. Rewrite to show slope as fraction: y=——x + ____

b. Slope = ——

c. y−intercept = _____

d. Interpret: Every time x changes by _____, the value of y
           changes by _____.

Dear Reader,

This is an exercise booklet. There are 16 major questions, and each of these consists of four smaller questions. The design of this booklet reflects my years of experience as a teacher. Each question is designed to guide you through the process of answering the major question asked. It is only by constant repetition of the correct kind that you can truly learn mathematics properly. Above all else, remember that mathematics until a certain level requires no special talent, or ability, but simply correct and consistent practice. I know because I have no special mathematical ability or talent, but I'm very persistent. Thus, if you'll persist, you'll learn. It's that simple.

Tom