Practice Sheet #1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve. Show your work.

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| 1. $\frac{ 3 }{5}×(3+2)$ | 6. $(\frac{ 4 }{7}∙21)^{2}-150$  |
| 2.$(\frac{ 1 }{2}+2^{3}∙5)-14∙\frac{ 1 }{7}$ | 7. Order from least to greatest.$\frac{ 4 }{7}$,$\frac{ 5 }{4}$,$\frac{ 7 }{8}$,$\frac{ 2 }{3}$,$\frac{ 7 }{9}$ |
| 3. $12 ÷\frac{ 1 }{2}∙3+3^{3}$ | 8. $-4\frac{ 3 }{4}+5\frac{ 5 }{6} $ |
| 4. Change the fraction to a decimal.$-2\frac{ 5 }{6}$ | 9. $(\frac{ 1 }{2})^{2}-\frac{ 1 }{4}$ |
| 5. $5.39÷1.1$ | 10. $6.625÷0.53$ |

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| 11. $-2\frac{ 5 }{8}÷1\frac{ 3 }{4}$ | 14. Convert $2\frac{ 5 }{9}$ into a decimal. |
| 12. $-3\frac{ 1 }{5}∙2\frac{ 5 }{8}$ | 15. Convert .265 to a fraction. Simplify to lowest terms. |
| 13. Solve for y. $\frac{ 3 }{y}=\frac{ 15 }{25}$ | 16. $3.77∙2.8=$ |

17. Mrs. Smith’s class has 15 girls and 12 boys. The entire school has 300 girls and the same proportion of girls to boys as Mrs. Smith’s class. Write a proportion and solve to show how many boys are in the entire school.

18. A baker made 6 pies for every 8 cakes. If she made 15 pies, write and solve a proportion to find the number of cakes she made.

19. Mr. Purcell bought a sporting goods store. He noticed that for every 12 jerseys he sold, he sold 2 canoes. At the end of March, Mr. Purcell found that he had sold 144 jerseys. Write a proportion and solve to show how many canoes he sold.

20. An 8-ounce can of soup costs $1.04. What is the price for each ounce?

21. Danika and Karen bought a pizza that was cut into 8 slices. If Danika ate $\frac{3}{4}$ of the pizza, how many slices were left for Karen?

22. Stillwater Middle School has a pep band with 15 members. Of those members, 1 in 3 members plays a percussion instrument and the remaining members play woodwind instruments. If *P* is used for players of percussion instruments and *W* is used for players of woodwind instruments, which of these *illustrates* a way to determine the number of band members playing each kind of instrument?

(a) PWW

(b) PPPPPPPPP WWWWWW

(c) PWW PWW PWW PWW PWW

(d) P W P W P W P W P W P W P

23. Joe’s Pizza sells large pizzas for $8 or you can buy pizza by the slice for $1.50 per slice. Each pizza has 8 slices. Three friends estimate that they will eat 6 slices of pizza. Which of the following would be the better buy (the least expensive option): buying a large pizza or buying 6 slices of pizza by the slice? Show work and explain your reasoning.

24. You have a bag filled with 6 red marbles, 4 blue marbles and 8 yellow marbles. What is the probability of pulling out a red or blue marble?

25. There are 31 students in Mrs. Quigley’s math class, Of those, 15 students have in-line skates, 10 scooters, and 12 have skateboards. Overall, 5 students have both in-line skates and a scooter, 3 have both a scooter and a skateboard, and 2 have both a skateboard and in-line skates. If no students have all three, how many students have only in-line skates or only skateboards?