Name_____ Class_____ Date_____

1-3 Practice

Form G

Real Numbers and the Number Line

Simplify each expression.

1. $\sqrt{4}$
2. $\sqrt{36}$
3. $\sqrt{25}$
4. $\sqrt{81}$
5. $\sqrt{121}$
6. $\sqrt{169}$
7. $\sqrt{625}$
8. $\sqrt{225}$
9. $\sqrt{\frac{64}{9}}$
10. $\sqrt{\frac{25}{81}}$
11. $\sqrt{\frac{225}{169}}$
12. $\sqrt{\frac{1}{625}}$
13. $\sqrt{0.64}$
14. $\sqrt{0.81}$
15. $\sqrt{6.25}$

Estimate the square root. Round to the nearest integer.

16. $\sqrt{10}$
17. $\sqrt{15}$
18. $\sqrt{38}$
19. $\sqrt{50}$
20. $\sqrt{16.8}$
21. $\sqrt{37.5}$
22. $\sqrt{67.5}$
23. $\sqrt{81.49}$
24. $\sqrt{121.86}$

Find the approximate side length of each square figure to the nearest whole unit.

25. a rug with an area of 64 ft^2

26. an exercise mat that is 6.25 m^2

27. a plate that is 49 cm^2

Name_____ Class_____ Date_____

1-3 Practice (continued) *Form G*

Real Numbers and the Number Line

Name the subset(s) of the real numbers to which each number belongs.

28. $\frac{12}{18}$ **29.** -5 **30.** π **31.** $\sqrt{2}$

32. 5564 **33.** $\sqrt{13}$ **34.** $-\frac{4}{3}$ **35.** $\sqrt{61}$

Compare the numbers in each exercise using an inequality symbol.

36. $\sqrt{25}, \sqrt{64}$ **37.** $\frac{4}{5}, \sqrt{1.3}$ **38.** $\pi, \frac{19}{6}$

39. $\sqrt{81}, -\sqrt{121}$ **40.** $\frac{27}{17}$, 1.7781356 **41.** $-\frac{14}{15}, \sqrt{0.8711}$

Order the numbers from least to greatest.

42. $1.875, \sqrt{64}, -\sqrt{121}$ **43.** $\sqrt{0.8711}, \frac{4}{5}, \sqrt{1.3}$ **44.** $8.775, \sqrt{67.4698}, \frac{64.56}{8.477}$

45. $-\frac{14}{15}, 5.587, \sqrt{81}$ **46.** $\frac{100}{22}, \sqrt{25}, \frac{27}{17}$ **47.** $\pi, \sqrt{10.5625}, -\frac{15}{5.8}$

48. Marsha, Josh, and Tyler are comparing how fast they can type. Marsha types 125 words in 7.5 minutes. Josh types 65 words in 3 minutes. Tyler types 400 words in 28 minutes. Order the students according to who can type the fastest.