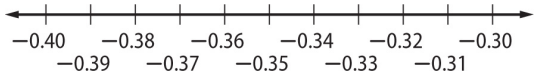
NAME _____ DATE _____ PERIOD _____

Chapter 3 Review

Write the letter for the correct answer in the blank at the right of each question.

1. Refer to the number line shown. Which of the following rational numbers is less than –0.35?

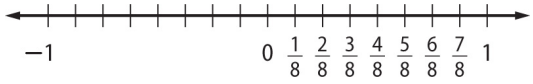


1._____

A. $-\frac{3}{11}$ **C.** $-0.\overline{37}$

B. $-0.\overline{33}$ **D.** $-\frac{3}{10}$

2. Ben plotted a point and its opposite on the number line shown. Which two points could Ben have plotted?



2. _____

F. $\frac{3}{8}$ and $-\frac{1}{3}$ **H.** $\frac{4}{8}$ and $-\frac{1}{2}$

G. $\frac{6}{8}$ and $-\frac{2}{3}$ **J.** $\frac{7}{8}$ and $-\frac{1}{8}$

3. Which decimal is equivalent to $\frac{4}{9}$?

3. _____

A. –0.42 **B.** $-0.\overline{24}$ **C.** 0.4 **D.** $0.\overline{4}$

4. Of the students in the school, 0.55 play more than one sport. Which fraction represents 0.55 in simplest form?

4. _____

F. $\frac{9}{20}$ **G.** $\frac{11}{20}$ **H.** $\frac{5}{10}$ **J.** $\frac{10}{55}$

5. In one season, an ice skater landed 45 jumps in 150 attempts. What part of the attempts did the skater land his jumps?

5. _____

A. 0.15 **B.** 0.20 **C.** 0.30 **D.** 0.45

6. Which fraction is equivalent to $2\frac{1}{4}$?

6._____

F. $\frac{5}{4}$ **G.** $\frac{6}{4}$ **H.** $\frac{9}{4}$ **J.** $\frac{11}{4}$

NAME _____ DATE _____ PERIOD _____

7. What is the product of $-\frac{1}{2} \cdot \frac{1}{8}$ in simplest form? **7.** _____

A. $-\frac{1}{4}$ **B.** $-\frac{1}{16}$ **C.** $\frac{1}{16}$ **D.** $\frac{1}{5}$

8. How many minutes are equal to $\frac{1}{4}$ hour? **8.** _____

F. 10 minutes **H.** 20 minutes
G. 15 minutes **J.** 30 minutes

9. What is the multiplicative inverse of $\frac{2}{9}$? **9.** _____

A. $-\frac{2}{9}$ **B.** $-\frac{2}{8}$ **C.** 1 **D.** $\frac{9}{2}$

10. What is the quotient of $\frac{7}{4} \div \frac{7}{4}$? **10.** _____

F. $\frac{11}{28}$ **G.** $\frac{4}{28}$ **H.** 1 **J.** $2\frac{1}{7}$

11. How many $\frac{1}{4}$-cup of cider can be poured from 4 cups of cider? **11.** _____

A. 1 **B.** 4 **C.** 8 **D.** 16

12. What is the sum of $\frac{3}{6} + \frac{2}{6}$? **12.** _____

F. $\frac{1}{6}$ **G.** $\frac{5}{6}$ **H.** 1 **J.** $\frac{5}{36}$

13. What is the difference of $\frac{9}{10} - \frac{2}{5}$? **13.** _____

A. $\frac{5}{7}$ **B.** $\frac{1}{3}$ **C.** $\frac{1}{2}$ **D.** $1\frac{3}{10}$

14. Which common denominator could you use to find the sum of $\frac{9}{8} + \left(-\frac{5}{28}\right)$? **14.** _____

F. 8 **G.** 28 **H.** 45 **J.** 56

NAME _____ DATE _____ PERIOD _____

15. Which decimal is equivalent to $-\frac{5}{9}$?

A. –0.555 **B.** $-0.\overline{555}$ **C.** 0.595 **D.** $0.\overline{5959}$

15. _____

16. Identify all sets to which the number $-\frac{3}{4}$ belongs.

F. whole numbers, integers, rational numbers
G. rational numbers
H. integers, rational numbers
J. odd numbers, whole numbers, integers, rational number

16. _____

17. Ling plotted a point and its opposite on a number line. Which two points could Ling have plotted?

A. $\frac{7}{12}$ and $-\frac{12}{7}$ **C.** $\frac{5}{15}$ and $-\frac{1}{3}$

B. $\frac{3}{9}$ and $-\frac{1}{9}$ **D.** $\frac{14}{28}$ and $-\frac{7}{2}$

17. _____

18. What symbol can be substituted for ● to make the following statement true?

$$-0.\overline{7} \bullet -\frac{4}{7}$$

F. = **G.** > **H.** < **J.** +

18. _____

19. A toll-free sales line sold 85 products for every 125 calls in one day. What is the daily success rate of the sales line?

A. 0.125 **B.** 0.32 **C.** 0.68 **D.** 0.85

19. _____

20. Which fraction is equivalent to $4\frac{5}{8}$?

F. $\frac{9}{8}$ **G.** $\frac{17}{8}$ **H.** $\frac{20}{8}$ **J.** $\frac{37}{8}$

20. _____

21. In a survey, 0.82 of students stated they homework every day. What is this value written as a fraction?

A. $\frac{1}{18}$ **B.** $\frac{1}{8}$ **C.** $\frac{9}{50}$ **D.** $\frac{41}{50}$

21. _____

NAME _____ DATE _____ PERIOD _____

22. Of the 175 dogs that were groomed, $\frac{3}{25}$ had a red collar. How many of the dogs had a red collar?

F. 21 dogs **G.** 50 dogs **H.** 147 dogs **J.** 150 dogs

22. _____

23. What is the product of $-\frac{2}{5} \cdot \left(-\frac{7}{10}\right)$ in simplest form?

A. $-\frac{1}{3}$ **B.** $-\frac{7}{25}$ **C.** $\frac{14}{50}$ **D.** $\frac{7}{25}$

23. _____

24. What is the value of $\frac{2}{3}rs$ if $r = -\frac{6}{7}$ and $s = -\frac{3}{10}$?

F. $-\frac{9}{35}$ **G.** $-\frac{6}{35}$ **H.** $\frac{6}{35}$ **J.** $\frac{9}{35}$

24. _____

25. What is the multiplicative inverse of $-\frac{5}{11}$?

F. –1 **G.** $-\frac{1}{11}$ **H.** $-\frac{11}{5}$ **J.** $\frac{11}{5}$

25. _____

26. Petra has 15 yards of fabric to make costumes for a play. If each costume requires $1\frac{1}{3}$ yards, how many costumes can she make?

26. _____

27. What is the sum of $6\frac{2}{5} + 3\frac{3}{5}$?

27. _____

28. What is the value of $-x - y$ if $x = -\frac{1}{5}$ and $y = \frac{7}{15}$?

28. _____