NAME _____ DATE _____ PERIOD _____

Chapter Quiz

Write each fraction as a decimal. Use a bar to show a repeating decimal.

1. $-\frac{4}{7}$ $-(4\div7)$ — 1. $-0.\overline{571428}$
2. $\frac{9}{20}$ $9\div20$ — 2. 0.45

Replace each ● with <, >, or = to make a true sentence.

3. $-0.28 \bullet -\frac{1}{2}$ — 3. $>$
4. $1\frac{5}{6} \bullet 1.8$ — 4. $>$

5. A store estimates that 14 out of 120 people return items to the store. To the nearest thousandth, find the rate of customer returns. — 5. $\frac{14}{120} = 0.117$ PER CUSTOMER

6. A garbage bag has a thickness of 0.8 mil, which is equal to 0.0008 inch. What fraction of an inch is this? — 6. $\frac{8}{10{,}000} = \frac{1}{1250}$

7. A Japanese bullet train averages 162 miles per hour. About how many minutes would it take to travel 119 miles from Hiroshima to Kokura on the train? — 7. $\frac{119}{162} = 0.73$; $0.73\times60 = 43.8$; ABOUT 44 MINUTES

Write each decimal as a fraction or mixed number in simplest form.

8. 0.42 — 8. $\frac{42}{100} = \frac{21}{50}$
9. -1.3636 — 9. SKIP

Find each product. Write in simplest form.

10. $-1\frac{1}{2} \bullet \frac{2}{3}$ $-\frac{3}{2}\cdot\frac{2}{3} = -\frac{6}{6}$ — 10. -1
11. $\frac{\cancel{8}^{1}}{\cancel{9}_{1}\cancel{16}_{2}} \bullet \frac{\cancel{42}^{2}}{\cancel{15}_{5}\cancel{3}_{1}}$ → $\frac{1}{9}\cdot\frac{2}{3} = \frac{2}{27}$ — 11. $\frac{2}{27}$
12. $-\frac{3}{16} \bullet \left(-3\frac{5}{9}\right)$ — 12. $\frac{2}{3}$

Evaluate each expression if $w = -3$, $x = \frac{3}{4}$, and $y = -\frac{4}{5}$.

13. $-wy$ $-(-3)\cdot(-\frac{4}{5}) = \frac{3}{1}\cdot(-\frac{4}{5}) = -\frac{12}{5}$ — 13. $-\frac{12}{5}$ OR $-2\frac{2}{5}$
14. $xy \bullet xy$ $\frac{3}{4}\cdot(-\frac{1}{5})\cdot\frac{3}{4}\cdot(-\frac{1}{5}) = 3\cdot(-\frac{1}{5})\cdot3\cdot(-\frac{1}{5}) =$ — 14. $\frac{9}{25}$
15. $-\frac{1}{2}wx$ $-\frac{1}{2}(-\frac{3}{1})(\frac{3}{4}) = \frac{9}{8}$ — 15. $\frac{9}{8}$ OR $1\frac{1}{8}$

16. The Nile River is 4160 miles long. The Amazon River is $\frac{25}{26}$ as long. How long is the Amazon River? — 16. 4000 MILES

$\frac{2080}{4160}\cdot\frac{25}{26} = \frac{\cancel{52000}^{4}}{\cancel{13}_{1}} = \frac{4{,}000}{1}$

2080 × 25 = 10400 + 41600 = 52000