



36.)  $3.\overline{6}$        $3.\overbrace{6666666666666666}^{\times 10 \text{ decimal} \rightarrow} \dots$

$$\begin{array}{r} 10n = 36.\overline{6} \\ -1n = 3.\overline{6} \\ \hline 9n = 33.0 \\ \frac{9n}{9} = \frac{33.0}{9} \\ = 3\frac{6}{9} = 3\frac{2}{3} \end{array}$$

$$38. \quad -4.\overline{21} \qquad -4.\underbrace{212121212121}_{\times 100} \dots$$

$$\begin{array}{r} 100n = 421.\overline{21} \\ - 1n = -4.\overline{21} \\ \hline \frac{99}{99}n = \frac{417}{99} \end{array}$$

$n = 4\frac{7}{33}$

40.)

$$\frac{189}{577} = \underline{0.328}$$
$$0.\underline{3}\underline{2}\underline{7}556$$

56.) Multiples

6, 9

multiply

Multiples 6: 6 12 (18) 24 30 36 . . .

Multiples 9: 9 (18) 27 36 45 . . .

1 lb. 10 oz.

45.)  $1 \frac{10}{16} = 1 \frac{5}{8}$

46.)  $1.625$

$$h.) -1.\overline{4}$$

$$10n = 14.\overline{4}$$

$$-1n = 1.\overline{4}$$

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$$\frac{9}{9}n = \frac{13}{9}.0$$

$$n = 1\frac{4}{9}$$

50.)

 $n = \text{one of the integers}$ 

$$-18n = 72$$



$$42) \quad 0.004$$
$$\frac{4}{1000} = \frac{1}{250}$$

$f \rightarrow D$   
Simp.  
 $S \rightarrow D$

2-2 Comparing and Ordering Rational Numbers

$$\frac{5}{8} < \frac{3}{4}$$

$$0.625 < 0.75$$


$$\frac{5}{8} < \frac{3}{4}$$

$$\frac{3}{4} = \frac{6}{8}$$

$$-5.2 \text{ } \bigcirc \text{ } 5 \frac{1}{4}$$
$$-5.2 < 5.25$$

a)  $\frac{5}{6} > \frac{7}{9}$        $\frac{5}{6} > \frac{7}{9}$   
 $0.8\bar{3} > 0.\bar{7}$        $\frac{15}{18} > \frac{14}{18}$

b.)  $-\frac{5}{7} \text{ (} \textcircled{<} \text{)} -0.7$   
 $-0.71 \quad = -0.70$



A horizontal number line with three tick marks. The tick marks are labeled from left to right as -0.71, -0.7, and 0.

$$\begin{array}{r} 0.70 \\ 0.71 \end{array}$$

$$\begin{aligned} \text{c.) } & 2\frac{3}{5} < 2.\overline{6} \\ & 2.6 < 2.66666\dots \end{aligned}$$