

SKILL

Skills Readiness**16****Compare and Order Real Numbers**

To compare numbers, you must determine which number is smaller.

Symbols: < (less than), > (greater than), and = (equal to)

Fractions and Decimals	Decimals and Percents	Fractions and Percents
Change the fraction to a decimal by dividing. Then compare digits, beginning with tenths, moving to the right.	Change the percent to a decimal by moving the decimal point. Then compare digits.	Change both the fraction and the percent to decimals. Then compare digits.
Compare $\frac{4}{5}$ and 0.85. $\frac{4}{5} = 4 \div 5 = 0.80$ Compare 0.80 and 0.85. Tenths place: 8 = 8 Hundredths place: 0 < 5 so $0.80 < 0.85$. $\frac{4}{5} < 0.85$	Compare 0.60 and 62%. $62\% = 0.62$ Compare 0.60 and 0.62. Tenths place: 6 = 6 Hundredths place: 0 < 2 so $0.60 < 0.62$ $0.60 < 62\%$	Compare 10% and $\frac{2}{25}$. $10\% = 0.10$; $\frac{2}{25} = 0.08$ Compare 0.10 and 0.08. Tenths place: 1 > 0 so $0.10 > 0.08$ $10\% > \frac{2}{25}$

Practice on Your Own

Compare. Write <, >, or =.

1. $9 \square 15$

2. $-5 \square -10$

3. $\frac{1}{4} \square \frac{1}{5}$

4. $\frac{11}{6} \square 2$

5. $0.2 \square 0.202$

6. $0.45 \square \frac{9}{20}$

7. $50\% \square 0.49$

8. $75\% \square \frac{37}{50}$

Order the numbers from least to greatest.

9. $\frac{3}{4}$, 70%, $\frac{8}{12}$, 0.72 _____

10. 1.5, $\frac{8}{5}$, 140%, $1\frac{3}{7}$ _____

11. $\frac{3}{10}$, 35%, $\frac{1}{3}$, 0.33 _____

Check

Compare. Write <, >, or =.

12. $0.09 \square \frac{1}{10}$

13. $\frac{5}{8} \square \frac{9}{16}$

14. $0.33 \square 30\%$

15. $\frac{6}{5} \square 125\%$

Order the numbers from least to greatest.

16. $\frac{1}{5}$, 0.22, $\frac{3}{20}$, 16%, $\frac{1}{6}$, 0.165 _____