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Homework 2-3**Int 1****Compare and Order Rational Numbers****Unit 2**Fill in each _____ with $<$, $>$ or $=$ to make a true sentence.

1. $-\frac{3}{5} > -\frac{4}{5}$

2. $-7\frac{5}{8} \text{ ______ } -7\frac{1}{8}$

3. $6\frac{2}{3} > 6\frac{1}{2}$

4. $-\frac{17}{24} \text{ ______ } -\frac{11}{12}$

Order each set of numbers from least to greatest.

5. $\{0.23, \frac{19}{100}, \frac{1}{5}\}$ $\{\frac{19}{100}, \frac{1}{5}, 0.23\}$

6. $\{-0.615, -\frac{5}{8}, -0.62\}$

7. Liberty Middle School is holding a fundraiser. The sixth-graders have raised $\frac{52}{100}$ of their goal amount. The seventh- and eighth-graders have raised 0.57 and $\frac{2}{5}$ of their goal amounts, respectively. List the classes in order from least to greatest of their goal amounts.

8th Grade, 6th Grade, 7th grade

Fill in each _____ with $<$, $>$ or $=$ to make a true sentence.

8. $1\frac{7}{12}$ gallons _____ $1\frac{5}{8}$ gallons

9. $2\frac{5}{6}$ hours _____ $>$ 2.8 hours

10. Identify the ratio that does not have the same value as the other three. Explain your reasoning.

11. Explain how you know which number $1\frac{15}{16}$, $\frac{17}{8}$, or $\frac{63}{32}$ is closest to two.

12. Which of the following fractions is the least?

A. $-\frac{7}{8}$

B. $-\frac{7}{10}$

C. $-\frac{7}{9}$

D. $-\frac{7}{11}$

Fill in each _____ with $<$, $>$ or $=$ to make a true sentence.

13. $-\frac{5}{7}$ _____ $-\frac{2}{7}$

14. $-3\frac{2}{3}$ $=$ $-3\frac{4}{6}$

15. $\frac{4}{7}$ $<$ $\frac{5}{8}$

16. $2\frac{3}{4}$ _____ $2\frac{2}{3}$

17. Gracia and Jim were shooting free throws. Gracia made 4 ^{out of} 15 free throws. Jim missed 6 out of 16 free throws. Who made the free throw a greater fraction of the time?

Gracia

$$\frac{4}{15}$$

$$0.2\bar{6}$$

Jim $\frac{10}{16}$

$$0.625$$

$<$

Jim

Order each set of numbers from least to greatest.

18. $\{7.49, 7\frac{49}{50}, \frac{7.5}{100}\}$

19. $\{-1.4, -1\frac{1}{25}, -1.25\}$

$\{\frac{7.5}{100}, 7.49, 7\frac{49}{50}\}$

20. Use the table that shows the lengths of small mammals.

a. Which animal is the smallest mammal?

Masked Shrew

b. Which animal is smaller than the European Mole but larger than the Spiny Pocket Mouse?

c. Order the animals from greatest to least size.

Animal	Length (ft)
Eastern Chipmunk	$\frac{1}{3}$
European Mole	$\frac{5}{12}$
Masked Shrew	$\frac{1}{6}$
Spiny Pocket Mouse	0.25

Fill in each _____ with $<$, $>$ or $=$ to make a true sentence.

21. -2 $<$ 2

23. -4 _____ -5

24. -20 _____ 20

25. -7 $>$ -8

26. -10 $<$ -1

27. 50 _____ -100

28. If a closet organizer has a total width of $59\frac{1}{8}$ inches and the closet is $59\frac{3}{4}$ inches wide, will the organizer fit? Explain.