

10-3-17

Aim: SWBAT do their best on the test and review basic information on fractions.

HW: WS : Front - # 1-16, 22-27; Back - All

Do Now: Sharpen pencil and clear desk

Fraction: A number that names part of a whole. Fractions also express ratios and division problems.

Proper Fraction

vs.

Improper Fraction

- denominator is bigger

$$\frac{1}{4}$$

- numerator is bigger

$$\frac{5}{2}$$

Equivalent Fractions: Fractions that have the same value.

Create by multiplying.

$$\left(\frac{1}{4}\right) = \frac{2}{8} = \frac{3}{12}$$

Simplest Form

Create by dividing.

$$\frac{20}{12} = \frac{10}{6} = \left(\frac{5}{3}\right)$$

Simplest Form

Converting improper fractions to mixed numbers.

Step 1: If negative, bring negative over to the answer.

Step 2: Set up the division problem.

Step 3: Figure out the whole amount and the remainder.

Step 4: Write the remainder as a fraction.

1) Write $\frac{7}{5}$ as a mixed number.

$$\begin{array}{r} 1 \text{ R } 2 \\ 5 \overline{) 7} \\ \underline{-5} \\ 2 \end{array}$$

$$\frac{1 \text{ R } 2}{\text{(Write using the remainder)}}$$

$$\frac{1 \frac{2}{5}}{\text{(Write the mixed \#)}}$$

2) Write $\frac{9}{4}$ as a mixed number.

$$\begin{array}{r} 2 \text{ R } 1 \\ 4 \overline{) 9} \\ \underline{-8} \\ 1 \end{array}$$

$$\frac{2 \text{ R } 1}{\text{(Write using the remainder)}}$$

$$\frac{2 \frac{1}{4}}{\text{(Write the mixed \#)}}$$

3) Write $\frac{12}{-7}$ as a mixed number.

$$\frac{\text{_____}}{\text{(Write using the remainder)}}$$

$$\frac{-1 \frac{5}{7}}{\text{(Write the mixed \#)}}$$

we never use negatives in long division ;)

the neg. always goes in the front of a mixed #.

Changing mixed numerals into improper fractions.**Step 1:** If negative, bring negative over to the answer.**Step 2:** Multiply the whole number part and denominator and add the numerator to that answer.**Step 3:** Keep the same denominator.

$$1\frac{3}{8} = \frac{(1 \times 8) + 3}{8} = \frac{11}{8}$$

1) $2\frac{1}{3}$ $\frac{7}{3}$

4) $1\frac{3}{11}$ $\frac{14}{11}$

2) $3\frac{2}{7}$ $\frac{23}{7}$

5) $-2\frac{4}{7}$ $-\frac{18}{7}$

3) $-5\frac{4}{9}$ $-\frac{49}{9}$

6) $10\frac{3}{5}$ $\frac{53}{5}$

Name _____

Extra Practice
(Lessons 5-1 through 5-3)

Fractions, Equivalent Fractions, and Simplest Form, Mixed Numerals

1-16, 22-27

Write each expression as a fraction. If the fraction names a whole number, state the whole number.

1. $21 \div 2$

2. $8 \overline{)55}$

3. $7 \div 9$

4. $36 \div 4$

5. $9 \div 25$

6. $14 \overline{)70}$

Write each fraction in simplest form.

7. $\frac{16}{48}$

* 8. $\frac{-45}{99}$

* 9. $\frac{13}{91}$

10. $\frac{30}{42}$

11. $\frac{84}{140}$

12. $\frac{96}{112}$

13. $\frac{52}{78}$

* 14. $\frac{62}{-66}$

15. $\frac{15}{90}$

16. $\frac{56}{84}$

17. $\frac{105}{175}$

* 18. $\frac{-258}{387}$

* 19. $\frac{-300}{375}$

* 20. $\frac{-255}{240}$

21. $\frac{1320}{1650}$

Change each fraction to a whole number or a mixed numeral in simplest form.

* 22. $\frac{-17}{2}$

23. $\frac{24}{10}$

24. $\frac{68}{17}$

25. $\frac{98}{32}$

* 26. $\frac{85}{15}$

* 27. $\frac{140}{-35}$

* 28. $\frac{162}{24}$

29. $\frac{215}{43}$

30. $\frac{776}{64}$

Write 2 equivalent fractions for each of the following.

1) $\frac{5}{20}$ _____

2) $\frac{50}{150}$ _____

3) $\frac{3}{9}$ _____

4) $\frac{45}{90}$ _____

Circle the letter of the best choice.

5) Pat shaded a fraction of this circle.



Which circle below shows an equivalent fraction?

- A. B. C. D.

6) Which figure is shaded to show $\frac{2}{3}$?

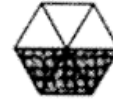
- A. B. C. D.

7) What is the missing number?

$$\frac{2}{7} = \frac{\square}{21}$$

- A. 4
B. 5
C. 6
D. 7

8) The figure below shows $\frac{3}{6}$ shaded.



Which fraction is equivalent to $\frac{3}{6}$?

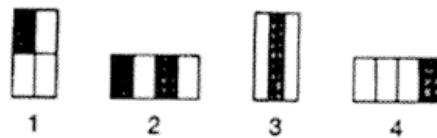
- A. $\frac{1}{6}$ C. $\frac{1}{2}$
B. $\frac{1}{3}$ D. $\frac{3}{3}$

9) What part of the figure is shaded?



- A. $\frac{1}{2}$
B. $\frac{2}{3}$
C. $\frac{3}{4}$
D. $\frac{5}{9}$

10) Each figure represents a fraction. Which two figures represent the same fraction?



- A. Rectangles 1 and 2
B. Rectangles 1 and 4
C. Rectangles 2 and 3
D. Rectangles 3 and 4