6th Grade
Feb 3, 2021

Today we will:

-review Extra Practice WS

-review video notes

-work on white boards

HOMEWORK:

Take-Home Quiz due TOMORROW

Project due FRIDAY

ALEKS assignment: 60 min and 5 topics due Monday by 11:59pm

In-Class Assignment:

Lesson 4 Extra Practice

Percents Greater than 100% and Percents Less than 1%

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

★ Drop % sign and move decimal point 2 places LEFT.
★ Use decimal to make fraction and simplify.

1. 895%

$$8.95$$

$$8\frac{95}{100} \div \frac{5}{5} = 8\frac{19}{20}$$

2. 555% = 5.55

$$5\frac{55}{100} \div \frac{5}{5} = 5\frac{11}{20}$$

3. 480% = $4.80 = 4.8$

$$4\frac{8}{10} \div \frac{2}{2} = 4\frac{4}{5}$$

4. 920%

$$9.2$$

$$9\frac{2}{10} \div \frac{2}{2} = 9\frac{1}{5}$$

5. 122% = 1.22

$$1\frac{22}{100} \div \frac{2}{2} = \frac{11}{50}$$

6. 0.3% = 0.003

$$\frac{3}{1000}$$

7. 0.42%

$$0.0042$$

$$\frac{42}{10,000} \div \frac{2}{2} = \frac{21}{5,000}$$

8. 0.78% = 0.0078

$$\frac{78}{10,000} \div \frac{2}{2} = \frac{39}{5,000}$$

9. 0.99% = 0.0099

$$\frac{99}{10,000}$$

Write each mixed number as a percent.

★ Change fraction to decimal
★ Move decimal point 2 places RIGHT and add % sign

10. $8\frac{1}{4}$

$$4\overline{)1.00}^{\,.25}$$

$$8\frac{1}{4} \times \frac{25}{25} \rightarrow 8\frac{25}{100}$$

$$8.25 = 825\%$$

11. $7\frac{13}{20}$

$$7\frac{13}{20} \times \frac{5}{5} = 7\frac{65}{100}$$

$$= 7.65$$

$$7.65 = 765\%$$

12. 10.00

$$= 1,000\%$$

13. 14.00

$$1,400\%$$

14. $16\frac{1}{5}$

$$16\frac{1}{5} \times \frac{2}{2} = 16\frac{2}{10}$$

$$= 16.2$$

$$16.20 = 1620\%$$

-turn over

15. $44\frac{3}{10} = 44.3$

$$44.30 = 4430\%$$

16. $12\frac{1}{2} \times \frac{5}{5} = 12\frac{5}{10}$
$= 12.50$
$= \boxed{1250\%}$

17. $2\frac{3}{4} \times \frac{25}{25} = 2\frac{75}{100}$
$= 2.75$
$2.75 = \boxed{275\%}$

18. $6\frac{1}{2} \times \frac{5}{5} = 6\frac{5}{10}$
$= 6.5$
$6.50 = \boxed{650\%}$

Write each decimal as a percent.

Move decimal 2 places RIGHT and add percent sign.

19. 3.50
$\boxed{350\%}$

20. 12.00
$\boxed{1200\%}$

21. 6.78 =
$\boxed{678\%}$

22. 1.95
$\boxed{195\%}$

23. 0.002
$= \boxed{0.2\%}$

24. 0.0077
$= \boxed{0.77\%}$

25. 0.0056
0.56
$\boxed{0.56\%}$

26. 0.0064
0.64
$= \boxed{0.64\%}$

27. 0.0102
1.02
$= \boxed{1.02\%}$

Math Chapter 2

TITLE: Decimals, Fractions, and Percents

Date	Lesson	Topic/Assignment
1/4	1	Decimals and Fractions Video Notes
1/5	1	HOMEWORK: Pg 93 WS
1/5	1	CLASSWORK: Skills WS
1/6	1	CLASSWORK: Problem-Solving WS
1/7	2	Fractions and Percents Video Notes
1/8	2	HOMEWORK: Page 105 WS
1/11	3	Percents and Decimals Video Notes
1/12	3	HOMEWORK: Page 113
1/12	3	CLASSWORK: HW Practice WS
1/14	1-3	CLASSWORK: Percent Puzzle
1/28	4	Percents >100% and <1% Video Notes
1/29	4	HOMEWORK: Reteach WS
2/2	4	CLASSWORK: Extra Practice WS
2/3	5	Compare and Order Video Notes

Glue Stick

Finding Least Common Denominator (LCD)
Comparing and Ordering Fractions
Ordering Decimals, Fractions, and Percents

To find LCD,
find the least common <u>multiple</u> of the denominators.
(Count by each number until you find a number that is the same.)

$\frac{3}{4}$ and $\frac{1}{6}$

$4 \rightarrow 4, 8, 12, 16, 20, \ldots$

$6 \rightarrow 6, 12, 18, 24, \ldots$

LCD = 12

To compare fractions,

1. Find LCD of the fractions.
2. Write an equivalent fraction using the LCD.
3. Compare the <u>numerators</u>.

$\frac{2}{3}, ③ \quad \frac{4}{9}, ② \quad \frac{4}{18} ①$

Find LCD: $3 \rightarrow 3, 6, 9, 12, 15, 18, 21 \ldots$
$9 \rightarrow 9, 18, 27, \ldots$
$18 \rightarrow 18$

$\frac{2}{3} \times \frac{6}{6} = \frac{12}{18} \quad \frac{4}{9} \times \frac{2}{2} = \frac{8}{18} \quad \frac{4}{18}$

$\frac{4}{18}, \frac{8}{18}, \frac{12}{18} \rightarrow \frac{4}{18}, \frac{4}{9}, \frac{2}{3}$

Compare by changing all numbers to decimals.

Examples:
1/5 = 0.2 = 20%
2/5 = 0.4 = 40%
1/8 = 0.125 = 12.5%
1/3 = 0.3333…. = 33.3333…%

$\frac{3}{5}, ③ \quad 0.5, ① \quad 90\%, ④ \quad \frac{3}{4} ②$

$\downarrow \qquad \downarrow \qquad \downarrow \qquad \downarrow$

$0.80 \quad 0.50 \quad 0.90 \quad 0.75$

$\frac{4}{5} \times \frac{2}{2} = \frac{8}{10}$

$= 0.8$

$0.5, \frac{3}{4}, \frac{4}{5}, 90\%$

$\begin{array}{r} 0.75 \\ 4\overline{)3.00} \\ -28 \\ \hline 20 \\ -20 \\ \hline 0 \end{array}$

Compare and Order Fractions, Decimals, and Percents

Replace each ⬤ **with <, >, or = to make a true statement.**

1. $\frac{11}{12}$ **>** $\frac{2}{3}$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

2. 0.5 ⬤ $\frac{9}{18}$

$$\frac{6}{10} \div \frac{5}{5} = \frac{1}{2}$$

$$\frac{9}{18} \div \frac{9}{9} = \frac{1}{2}$$

$$18\overline{)9.0}^{.5} \quad -90 \quad 0$$

3. $237)5$ ⬤ $2\frac{8}{24}$

4. $6\frac{2}{3}$ **<** $6\frac{12}{15}$

$$\frac{15:}{3:}$$

$$6\frac{10}{15} < 6\frac{12}{15}$$

$$3\overline{)2.0}^{0.6} \quad -18 \quad 2$$

$$15\overline{)12.0}^{0.7} \quad 105 \quad 15$$

5. 5.75 **>** $5\frac{8}{12}$

$$12\overline{)8.0}^{0.6} \quad 72 \quad 8$$

$$\frac{75}{100} = \frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

6. $\frac{2}{3}$ ⬤ $\frac{10}{18}$

Order the fractions from least to greatest.

10. $\frac{3}{5}, \frac{1}{4}, \frac{1}{2}, \frac{2}{5}$

11. $\frac{7}{9}, \frac{13}{18}, \frac{5}{6}, \frac{2}{3}$

MUSIC Ramundus is making a xylophone. So far, he has bars that are 1.75 feet, $1\frac{7}{12}$ feet, and $1\frac{2}{3}$ feet long. What is the length of the longest bar?