

6th Grade
Jan. 6, 2021

Today we will:

- review yesterday's WS
- "Find Your Match" activity
- work on problem-solving WS

HOMWORK:

Complete WS if not done

Video notes

THQ due FRIDAY

ALEKS assignment:
60 min and 5 topics
due Jan 12



Lesson 1 Skills Practice

Decimals and Fractions

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

1. 0.6

$$0.6 = \frac{6}{10} \div \frac{2}{2} = \left(\frac{3}{5}\right)$$

2. 10.9

$$10.9 = 10\frac{9}{10}$$

3. 0.08

$$0.08 = \frac{8}{100} \div \frac{4}{4} = \left(\frac{2}{25}\right)$$

4. 6.25

$$6.25 = 6\frac{25}{100} \div \frac{25}{25} = \left(6\frac{1}{4}\right)$$

5. 4.125

$$4.125 = 4\frac{125}{1000} \div \frac{25}{25} = 4\frac{5}{40} \div \frac{5}{5} = \left(4\frac{1}{8}\right)$$

6. 0.075

$$0.075 = \frac{75}{1000} \div \frac{25}{25} = \left(\frac{3}{40}\right)$$

7. 9.35

$$9.35 = 9\frac{35}{100} \div \frac{5}{5} = \left(9\frac{7}{20}\right)$$

8. 3.56

$$3.56 = 3\frac{56}{100} \div \frac{4}{4} = \left(3\frac{14}{25}\right)$$

9. 8.016

$$8.016 = 8\frac{16}{1000} \div \frac{4}{4} = 8\frac{4}{250} \div \frac{2}{2} = \left(8\frac{2}{125}\right)$$

10. 21.5

$$21.5 = 21\frac{5}{10} \div \frac{5}{5} = \left(21\frac{1}{2}\right)$$

11. 0.055

$$0.055 = \frac{55}{1000} \div \frac{5}{5} = \left(\frac{11}{200}\right)$$

12. 7.42

$$7.42 = 7\frac{42}{100} \div \frac{2}{2} = \left(7\frac{21}{50}\right)$$

change to decimal.

13. $\frac{1}{4} = 1.25$

$$\frac{1}{4} \times \frac{25}{25} = \frac{25}{100}$$

$$4 \overline{) 1.00} \begin{array}{r} 0.25 \\ \underline{1.00} \\ 0 \end{array}$$

$$4 \overline{) 5.00} \begin{array}{r} 1.25 \\ \underline{5.00} \\ 0 \end{array}$$

14. $10\frac{8}{20} = 10.40$

$$\frac{8}{20} \times \frac{5}{5} = \frac{40}{100}$$

$$20 \overline{) 8.00} \begin{array}{r} 0.40 \\ \underline{8.00} \\ 0 \end{array}$$

OR $\frac{8}{20} \div \frac{2}{2} = \frac{4}{10}$

15. $\frac{1}{8} = 0.125$

$$8 \overline{) 1.000} \begin{array}{r} 0.125 \\ \underline{8.000} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

"Find Your Match" activity

Lesson 1 Problem-Solving Practice

Decimals and Fractions

1. FIELD TRIP About 0.4 of a biology class will be going on a field trip. Write the decimal as a fraction in simplest form.

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

2. EARTH Eight tenths of all life on Earth is below the ocean's surface. Write 0.8 as a fraction in simplest form.

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

3. DISTANCE The distance of planets from the Sun is shown in the table. Write each decimal as a mixed number in simplest form.

Planet	Distance from the Sun
Earth	92.96 million miles
Mercury	35.99 million miles
Venus	67.24 million miles

Earth: $92\frac{24}{25}$
 Mercury: $35\frac{99}{100}$
 Venus: $67\frac{24}{25}$

4. SATURN If you weighed 138 pounds on Earth, you would weigh 128.34 pounds on Saturn. Write the weight on Saturn as a mixed number in simplest form.

$$\frac{34}{100} \div \frac{2}{2} = \frac{17}{50}$$

$128\frac{17}{50}$

5. MERCURY The planet Mercury is roughly $\frac{2}{5}$ the size of Earth. Write the fraction as a decimal.

$$\frac{2}{5} \times \frac{2}{2} = \frac{4}{10} \quad (0.4)$$

6. HEIGHT Winona is $2\frac{3}{12}$ the height of her little brother. Write the mixed number as a decimal.

$12 \overline{) 300} \quad 2.25$

Handwritten work for $2\frac{3}{12}$ conversion:
 $2\frac{3}{12} = 2\frac{25}{100} = 2.25$



% → Frac
tions

Frac → %
tions

Steps:

1. Write the percent as a

over _____.

2. Simplify.

Steps:

1. Change the fraction so

it has a _____

of _____.

2. Drop the "100ths" and

add a _____

Examples:

Examples: