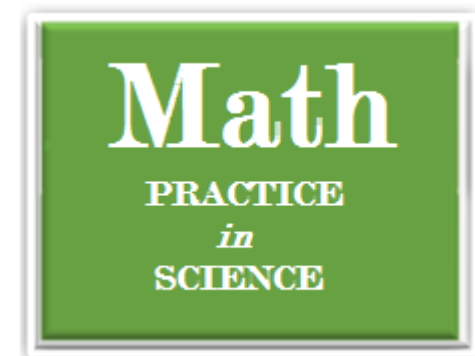


049 Math Practice

Decimals and Fractions



The decimal 0.5 and the fraction $\frac{1}{2}$ name the same number. Decimals and fractions are both names for parts of a whole.

$$\frac{1}{2} = \frac{1}{2} \times \frac{5}{5} = \frac{5}{10} = 0.5$$

You can find the decimal equivalent by finding an equivalent common fraction with a denominator of 10, 100, 1000.

Example: $\frac{1}{4} = \frac{25}{100} = 0.25$

Find the decimal equivalent for these fractions.

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

2. $\frac{1}{8}$

3. $\frac{3}{4}$

4. $\frac{7}{8}$

5. $\frac{7}{10}$

You can also find the decimal equivalent by dividing the fraction.

Example: $\frac{3}{8} =$

$$\begin{array}{r} .375 \\ 8 \overline{)3.000} \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Use the division method to find the decimal equivalents.

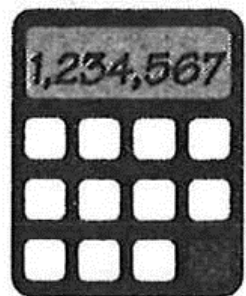
6. $\frac{1}{2}$

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

8. $\frac{5}{8}$

9. $\frac{1}{4}$

10. $\frac{1}{5}$

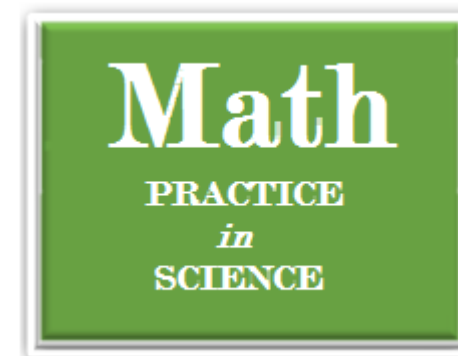


Use a calculator to solve this problem. Teresa earns \$26,240 per year. Last year, she worked $\frac{5}{8}$ of the year. How much did Teresa earn last year?

Think: $\frac{5}{8} \times \frac{26,240}{1}$

050 Math Practice

Rounding Decimals



The procedure for rounding decimals is just like rounding whole numbers. The first steps are the same: to identify the place names.

Example: Round 4.467 to the nearest tenth.

- Step 1:** Identify the place of rounding. 4.467 tenths place
- Step 2:** If the digit to the right is 5 or more, add 1 to the place of rounding. 4.467
- Step 3:** Drop all digits to the right of the place of rounding. 4.5

Example: Round 3.7849 to the nearest hundredth.

- Step 1:** Identify the place of rounding. 3.7849 hundredths place
- Step 2:** If the digit to the right is less than 5, then do not add 1. 3.7849
- Step 3:** Drop all digits to the right of the place of rounding. 3.78

Complete this chart by rounding each number to the place indicated.

Tenths	Hundredths	Thousandths
1. 4.62 _____	9. 5.017 _____	17. 0.0925 _____
2. 6.27 _____	10. 3.785 _____	18. 0.6291 _____
3. 0.79 _____	11. 0.4115 _____	19. 0.1288 _____
4. 0.96 _____	12. 1.063 _____	20. 9.00336 _____
5. 0.059 _____	13. 0.3098 _____	21. 5.16823 _____
6. 96.01 _____	14. 0.1951 _____	22. 28.41231 _____
7. 0.049 _____	15. 2.1191 _____	23. 0.62483 _____
8. 126.19 _____	16. 285.092 _____	24. 0.00781 _____