

## FIND THE ERRORS - RATIO, PROPORTION AND PERCENT

SHOW ALL WORK and write your answers on the lines to the right.

1. Find which is the better buy (lower cost per ounce) by finding each unit price rounded to three decimal places if necessary. Assume that different sizes of the same brand are being compared.

Jelly:

\$1.53 for 6 ounces

\$4.99 for 20 ounces

$$\frac{1.53}{6} = .225$$

$$\frac{4.99}{20} = .2495 \approx .249$$

\$1.53 better buy

2. Solve for n:  $\frac{9}{n} = \frac{0.2}{1.6}$

$$9 \times 1.6 = .2 \times n$$

$$14.4 = .2n$$

$$\frac{14.4}{.2} = \frac{.2n}{.2}$$

$$1 = n$$

n = 1

3. It takes Mark 8 minutes to type and spell check 6 pages. Find how many pages he can type and spell check in 1.5 hours. Round answers to the nearest tenth if necessary.

$$\frac{\text{minutes}}{\text{pages}} = \frac{\text{minutes}}{\text{pages}}$$

$$\frac{8}{6} = \frac{1.5}{p}$$

$$8 \times p = 1.5 \times 6$$

$$8p = 9.0$$

$$\frac{8p}{8} = \frac{9.0}{8}$$

$$p = 1.125 \text{ pages}$$

1.125 pages

4. Write 0.473 as a percent.

4.73%

5. 3 is what percent of 24?

3 is N% of 24  
↑     ↑     ↑  
Base   P     Amt

$$\begin{aligned}\frac{24}{3} &= \frac{N}{100} \\ 24 \times 100 &= 3 \times N \\ 2400 &= 3N \\ \frac{2400}{3} &= \frac{3N}{3} \\ 800 &= N\end{aligned}$$

800%

6. A watch sells for \$ 1082. If the sales tax rate is 6.0%, what is the total price?

$$\begin{array}{r} 1082 \\ \times \quad .06 \\ \hline 64.92 \end{array}$$

\$ 64.92

7. Find the simple interest when Principal = \$ 2916, Rate = 18%, Time = 18 months.

$$\begin{aligned}I &= P \times R \times T \\ &= 2916 \times 1.8 \times 18 \\ &= 94478.4\end{aligned}$$

\$ 94478.40