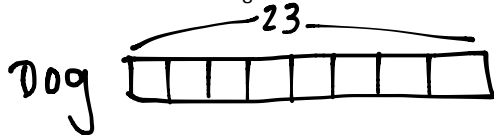


Name _____

Date _____

1. Jesse takes his dog and cat for their annual vet visit. Jesse’s dog weighs 23 pounds. The vet tells him his cat’s weight is $\frac{5}{8}$ as much as his dog’s weight. How much does his cat weigh?



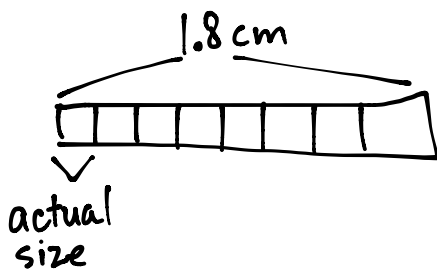
$$\frac{5}{8} \text{ of } 23 = \frac{5 \times 23}{8}$$

$$= \frac{115}{8}$$



$$= 14\frac{3}{8} \text{ lb or } 14.375 \text{ lb}$$

2. An image of a snowflake is 1.8 centimeters wide. If the actual snowflake is $\frac{1}{8}$ the size of the image, what is the width of the actual snowflake? Express your answer as a decimal.



$$\frac{1}{8} \text{ of } 1.8 = \frac{1}{8} \times \frac{18}{10}$$

$$= \frac{1 \times 18}{8 \times 10}$$

The snowflake is 0.225 cm wide

$$= \frac{9}{40} \times \frac{25}{25} = \frac{225}{1000} = 0.225$$

3. A community bike ride offers a short ride for children and families, which is 5.7 miles, followed by a long ride for adults, which is $5\frac{2}{3}$ times as long. If a woman bikes the short ride with her children, and then the long ride with her friends, how many miles does she ride altogether?

$$5\frac{2}{3} \times 5.7 = 5\frac{2}{3} \times 5\frac{7}{10}$$

$$= \frac{17}{3} \times \frac{57}{10}$$

$$= \frac{17 \times 57}{3 \times 10}$$

$$= \frac{323}{10} = 32.3 \text{ miles}$$

$$\begin{array}{r} 32.3 \\ + 5.7 \\ \hline 38.0 \end{array}$$

She rides 38 miles altogether.

4. Sal bought a house for \$78,524.60. Twelve years later he sold the house for $2\frac{3}{4}$ times as much. What was the sale price of the house?

$2\frac{3}{4} = 2.75$

$$\begin{array}{r} 78524.60 \rightarrow 7852460 \text{ hundredths} \\ \times 2.75 \rightarrow \times 275 \text{ hundredths} \\ \hline 39262300 \\ + 549672200 \\ + 1570492000 \\ \hline 2159426500 \text{ tenthousandths} \\ 215942.6500 = \$215,942.65 \end{array}$$

5. In the fifth grade at Lenape Elementary School, there are $\frac{4}{5}$ as many students who do not wear glasses as those who do wear glasses. If there are 60 students who wear glasses, how many students are in the fifth grade?

Do not wear glasses



wear glasses



60

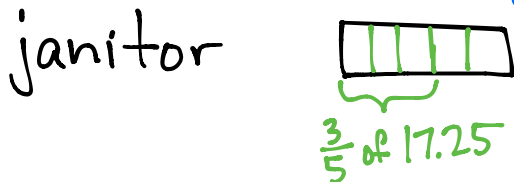
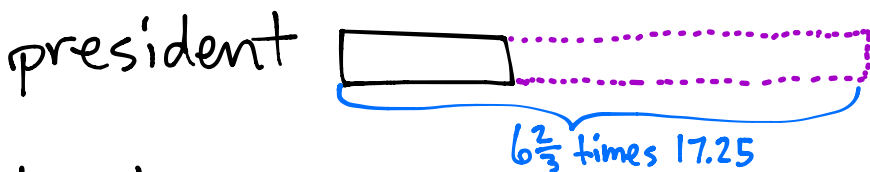
$$\begin{aligned} 5 \text{ units} &= 60 \\ 1 \text{ unit} &= 60 \div 5 \\ &= 12 \end{aligned}$$

$$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$$

9 units = 108

There are 108 5th grade students

6. At a factory, a mechanic earns \$17.25 an hour. The president of the company earns $6\frac{2}{3}$ times as much for each hour he works. The janitor at the same company earns $\frac{3}{5}$ as much as the mechanic. How much does the company pay for all three people employees' wages for one hour of work?



President

$$\begin{aligned} &6\frac{2}{3} \times 17.25 \\ &= 6\frac{2}{3} \times 17\frac{1}{4} \\ &= \frac{20}{3} \times \frac{69}{4} \\ &= \frac{5 \cancel{20} \times \cancel{69}^{23}}{\cancel{3} \times \cancel{4}^1} \\ &= 115 \end{aligned}$$

Janitor

$$\begin{aligned} &\frac{3}{5} \text{ of } 17.25 \\ &= \frac{3}{5} \times 17\frac{1}{4} \\ &= \frac{3}{5} \times \frac{69}{4} \\ &= \frac{207}{20} \\ &= 10\frac{7}{20} = 10\frac{35}{100} \\ &= 10.35 \end{aligned}$$

Total: $17.25 + 115 + 10.35 = 142.6 = \142.60