1. A class has $\mathbf{1 2}$ girls and 17 boys. Write this as a ratio 3 different ways.

12 to 17
$12: 17$

$$
\frac{12}{17}
$$

Write the ratio as a fraction in simplest form.
2. 48 worksheets : 12 students
3. 35 frogs to 21 lizards


Find the unit rate. (Include units!)
4. 405 rotations in 5 minutes

$$
\frac{405}{5}
$$



$$
\frac{35}{21}
$$

$$
\frac{5}{3} \frac{\text { fogs }}{\text { lizards }}
$$

8. Use the table to write a proportion.

|  | Tank <br> A | Tank <br> B |
| :--- | :---: | :---: |
| Fish | 6 | $f$ |
| Gallons | 10 | 55 |

$$
\frac{6}{10}=\frac{f}{55} \quad \text { OR } \quad \frac{10}{6}=\frac{55}{f}
$$

9. You can buy 5 pounds of grapes for $\$ 9.95$.

Write a proportion that gives the cost $\boldsymbol{c}$ if you buy 4 pounds of grapes.

$$
\$ \frac{9.95}{5}=\frac{c}{4}
$$

Solve the proportion.
10. $\frac{2}{3}=\frac{n}{12}$

12. $\frac{w}{84}=\frac{5}{7}$

$$
\omega=60
$$

14. $\frac{5 x}{6}=\frac{67.5}{27}$

$$
\begin{aligned}
6(67.5) & =27(5 x) \\
\frac{405}{135} & =\frac{135 x}{135} \\
x & =3
\end{aligned}
$$

11. $\frac{k}{6}=\frac{15}{18}$

$$
k=5
$$

13. $\frac{8}{25}=\frac{3}{d}$

$$
\frac{8 d}{8}=\frac{75}{8}
$$

$$
d=9.375
$$

15. $-\quad \frac{16}{10}=\frac{n+2}{5}$

$$
\begin{aligned}
& 5(16)=10(n+2) \\
& 80=10 n+20 \\
& -20-20 \\
& \frac{60}{10}=\frac{10 n}{10} \\
& 6=n
\end{aligned}
$$

16. Write and solve a proportion to find how many points a student needs to score on a test worth 150 points if they want a $96 \%$.

$$
\frac{x}{150}=\frac{96}{100} \quad \frac{100 x}{100}=\frac{14400}{100}
$$


17. In an animal shelter, the ratio of dogs to cats is 5 to 3 . There are 25 dogs. Write and solve a proportion to find the number $c$ of cats.

$$
\frac{d}{c} \quad \frac{5}{3}=\frac{25}{c} \quad \frac{5 c}{5}=\frac{75}{5} \quad 15 \text { cots }
$$

18. You can buy 5 stickers for $\$ 3.00$. How much does it cost to buy 12 stickers?

$$
\frac{\$}{\text { stickles }} \quad \frac{3}{5}=\frac{x}{12}
$$

$$
\frac{5}{5} x=\frac{36}{5}
$$


19. It costs $\$ 145$ for 10 people to attend a concert. How much does it cost a group of 8 people?
$\frac{\$}{\text { pop le }}$

$$
\begin{aligned}
& \frac{\$ 145}{10}=\frac{x}{8} \\
& \frac{10}{10} x=\frac{1160}{10}
\end{aligned}
$$

$$
\begin{array}{r}
\text { OR } \quad \begin{array}{c}
\$ 145 \\
10
\end{array}=\begin{array}{c}
\$ 14.50 \\
\text { per } \\
\text { person }
\end{array} \\
8 * 14.50=\$ 116.00
\end{array}
$$



