

Cumulative Review:

Write a story that relates to the equation.

20. $x + 4 = 25$

Sally is having a birthday party & her parents said she can invite 25 friends. If Sally has 4 best friends how many more friends can come to the party?

21. $\frac{x}{3} = 15$

Coach Williams, Coach Barton & Coach Galvin go out to dinner & split the bill 3 ways. If they each pay \$15, how much was the total bill?

22. A car travels 180 miles in 4 hours. Use dimensional analysis to convert the car's speed to feet per minute.

$$\frac{180 \text{ mi}}{4 \text{ hr}} \cdot \frac{5280 \text{ ft}}{1 \text{ mi}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} = \boxed{3960 \text{ ft/min}}$$

Solve the following equations.

23. $\frac{5}{8}x = 35 \cdot \frac{9}{2}$

$$\boxed{x = 63}$$

24. $\frac{1}{3}(6x + 15) = x - 8$

$$2x + 5 = x - 8$$

$$\boxed{x = -13}$$

25. The Basketball Birthday Hoops Package costs \$184. The package includes tickets, drinks, and cake for a group of 8 children. Write and solve an equation to find the cost per child.

$$8x = 184$$

$$x = \$23 \text{ per child}$$