

$$22. \frac{3y}{4} = \frac{12}{5}$$

Cross Multiply

$$15y = 48$$

$$y = \frac{48}{15}$$

$$y = \frac{16}{5} \text{ or } 3\frac{1}{5}$$

$$23. \frac{(x+3)}{3} = \frac{16}{10}$$

Cross Multiply

$$10(x+3) = 48$$

Distribute

$$10x + 30 = 48$$

$$10x = 18$$

$$x = \frac{9}{5} \text{ or } 1\frac{4}{5}$$

$$24. \frac{3}{(m+2)} = \frac{6}{m}$$

Cross Multiply

$$3m = 6(m+2)$$

Dist.

$$3m = 6m + 12$$

Subt 6m

$$-3m = 12$$

$$m = -4$$

Solve each percent problem.

25. 8 is what percent of 12?

$$8 \downarrow = p\% \cdot 12$$

$$\frac{8}{12} = p\%$$

$$p = 66.\bar{6}\% \text{ or } 66.7\%$$

26. 60 is 120% of what number?

$$60 \downarrow = 1.20 \cdot n$$

$$\frac{60}{1.2} = n$$

$$n = 50$$

$$1.3 \overline{) 60.9}$$

27. What is 30% of 180?

$$x \downarrow = 0.30 \cdot 180$$

$$x = 54$$

$$\begin{array}{r} 180 \\ \times 0.3 \\ \hline 540 \end{array}$$

Write each equation as a function of x (solve for y). ← Isolate y, Get y by itself.

28. $2x + y = 12$

$$\begin{array}{r} -2x \quad -2x \\ \hline y = -2x + 12 \end{array}$$

29. $x + 3y = 9$

$$3y = -x + 9$$

$$y = -\frac{1}{3}x + 3$$

30. $3x = -4y + 16$

$$4y = -3x + 16$$

$$y = -\frac{3}{4}x + 4$$

31. You walked for 20 minutes and burned 200 calories. How many calories did you burn per minute?

$$\frac{\text{cal}}{\text{min}} : \frac{200 \text{ calories}}{20 \text{ minutes}} = 10 \text{ cal/min}$$

↑
divide

32. Assume the sales tax in CA is 8.75%. Find the total price paid for a pair of jeans that costs \$65. Round to hundredths.

$$\text{total price} : \$65 + 0.0875(\$65) = \$65 + \$5.69 = \$70.69$$

33. In 4 hours a toy maker can produce 10 boxes that each contain 5 toys. How many toys does the toy maker produce in 8 hours?

50 toys

$$\frac{\text{toys}}{\text{hour}} : \frac{50 \text{ toys}}{4 \text{ hrs}} = \frac{x}{8 \text{ hrs}} \Rightarrow x = 100 \text{ toys}$$

34. Given $\triangle ABC \sim \triangle DEF$. Find x and y



$$\frac{4}{12} = \frac{x}{20}$$

$$80 = 12x$$

$$x = \frac{20}{3} \text{ or } 6\frac{2}{3}$$

$$\frac{4}{12} = \frac{5}{y}$$

$$4y = 60$$

$$y = \frac{60}{4}$$

$$y = 15$$

Algebra Midterm Exam And Answer Key

Kamrouz Berenji



Algebra Midterm Exam And Answer Key:

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