## Unit 2: Equations - Review

Solve for the unknown.


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| $3+2 m+6 m=19$ | $3 x+7=2 x-3$ | $7+3 k-2=4 k$ |
| :--- | :---: | :---: |
| $4-(3 p-2)=p-10$ | $3(2 k-5)-k=4-(3 k+7)$ | $2(n-8)=-4(2 n-1)$ |
|  |  |  |

Solve for the unknown.

$$
\frac{1}{3}(x-1)=4
$$

$$
\frac{b-4}{3}=-5
$$

$$
3=\frac{3}{4}(p-1)
$$

$-3=\frac{5 x+4}{7}$

Solve for the unknown.

$$
\frac{y-8}{3}=\frac{y+4}{2}
$$

$$
\frac{2}{5}(x+3)=\frac{1}{2}(x-5)
$$

Rearrange each formula to isolate the variable indicated.


A triangle has angle measures that are related as follows:

- The largest angle is eight times the smallest angle
- The middle angle is triple the smallest angle


Find the measure of each angle.
Hint: The sum of the angles in a triangle is $\mathbf{1 8 0}$ degrees.

Think of an algebraic expression to represent each description:
a) Triple a number
b) Four more than a number
c) Heather is 5 years older than Megan
d) Sarah makes five less than double Emma's salary.

The sum of three consecutive integers is 54. What are the integers?

Jamie earns \$150 more per week than Johnny and \$100 less than Jackson. Together the three earn $\$ 2050$ per week. How much does each person earn per week?

Shawn works at a cell phone kiosk. He earns $\$ 8.50$ per hour plus a $\$ 15$ commission for each contract he sells.
a) Write an expression to represent Shawn's earnings.
b) How much will Shawn make in an 8 -hr shift if he sells seven contracts?
c) How many contracts does Shawn need to sell to earn $\$ 790$ in a 40 -hr work week?

