

## LESSON PRACTICE

Follow the directions to find the unknown integers.

Find three consecutive even integers such that three times the third is equal to twice the sum of the first and second, plus two.

1. Represent each integer with an unknown.
2. Write an equation using the unknowns.
3. Solve for the three integers.
4. Check by substituting the integers in your equation.

Find three consecutive integers such that the sum of the first and third is equal to twenty times the second.

5. Represent each integer with an unknown.
6. Write an equation using the unknowns.
7. Solve for the three integers.
8. Check by substituting the integers in your equation.

Find three consecutive integers such that five times the first integer plus twice the second is equal to six times the third.

9. Represent each integer with an unknown.
10. Write an equation using the unknowns.
11. Solve for the three integers.
12. Check by substituting the integers in your equation.

Find three consecutive odd integers such that the first plus the third is equal to three times the second plus nineteen.

13. Represent each integer with an unknown.
14. Write an equation using the unknowns.
15. Solve for the three integers.
16. Check by substituting the integers in your equation.

## SYSTEMATIC REVIEW

**For #1-3** Find three consecutive even integers such that five times the third, minus four times the first, is the same as four times the second.

1. Represent each integer with an unknown.
2. Write an equation using the unknowns.
3. Solve for the three integers.

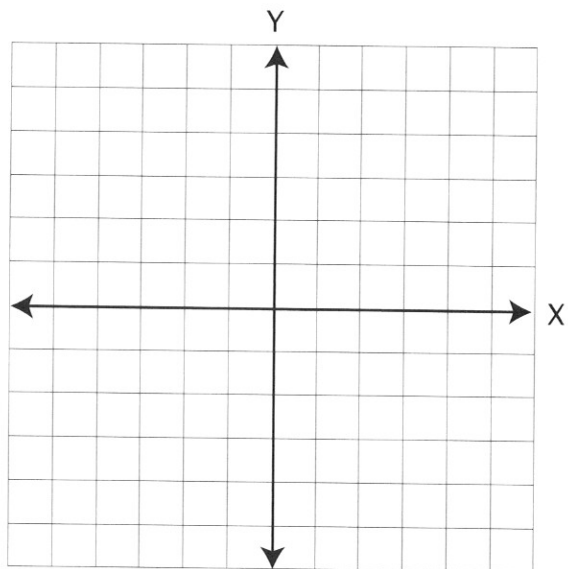
**For #4-6** Find three consecutive integers such that six times the second, plus four times the first, is the same as nine times the third, minus four.

4. Represent each integer with an unknown.
5. Write an equation using the unknowns.
6. Solve for the three integers.

7. Eleven coins made up of dimes and nickels have a value of \$.80. Solve and check your answer.

**For #8-10**  $Y - 5 > 4X - 9$

8. Rewrite using the slope-intercept form.
9. Graph the inequality.
10. Does the point (1, 2) satisfy the inequality?



11. Line 1:  $4Y + X = 11$   
Line 2:  $2Y - 3X = 9$       Using the substitution or elimination method, find X and Y.
12. What is the equation of a line parallel to line 1 in #11 through (0, 1)?
13. What is the least common multiple of 3 and 7?
14. Use algebraic symbols to represent the following: the sum of a number and two, multiplied by four, equals twenty-three, plus the number.
15. Solve for the unknown in #14.
16. Use the value of the unknown found in #15 to find the value of this expression:  $[2(X - 3) + 1] \div X$ .
17. One-half plus two-thirds equals \_\_\_\_\_.
18.  $75\% \times 250 =$
19. Solve:  $1.8 - .16A = 10$
20. What are the prime factors of 96?

## SYSTEMATIC REVIEW

**For #1-3** Find three consecutive odd integers such that four times the third, plus one, is the same as three times the first, plus two times the second.

1. Represent each integer with an unknown.
2. Write an equation using the unknowns.
3. Solve for the three integers.

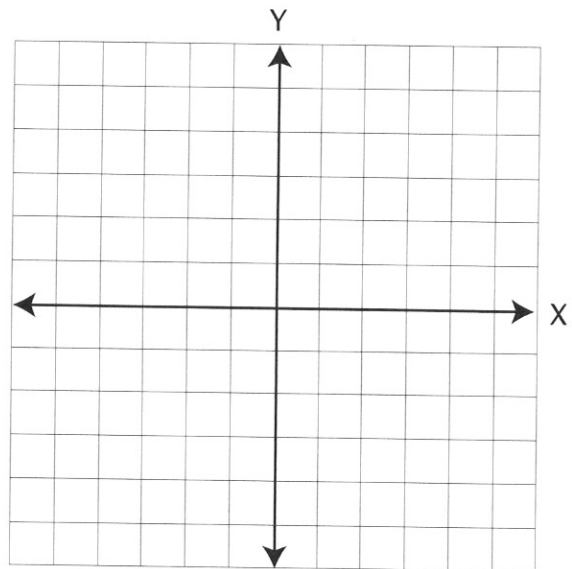
**For #4-6** Find three consecutive integers such that three times the first, minus five times the second, is the same as negative one.

4. Represent each integer with an unknown.
5. Write an equation using the unknowns.
6. Solve for the three integers.

7. Fifteen coins made up of dimes and nickels have a value of \$1.10. Solve and check your answer.

**For #8-10**  $Y + 2 > X$

8. Rewrite using the slope-intercept form.
9. Graph the inequality.
10. Does the point  $(-4, -3)$  satisfy the inequality?



11. Line 1:  $5Y + 6X = -19$   
Line 2:  $5Y + 3X = -22$

Using the substitution or elimination method, find X and Y.

12. What is the equation of a line perpendicular to line 1 in #11 through  $(-4, 1)$ ?

13. What is the least common multiple of 6 and 8?

14. Use algebraic symbols to represent the following: two times a number, minus six, plus eight times the number, equals four.

15. Solve for the unknown in #14.

16. Use the value of the unknown found in #15 to find the value of this expression:  $3X - X^2 + 13 - 4X$ .

17. One-sixth plus three-fourths equals \_\_\_\_\_.

18.  $13\% \times 180 =$

19. Solve:  $6A - 16 - 4A = 20$

20. What are the prime factors of 135?