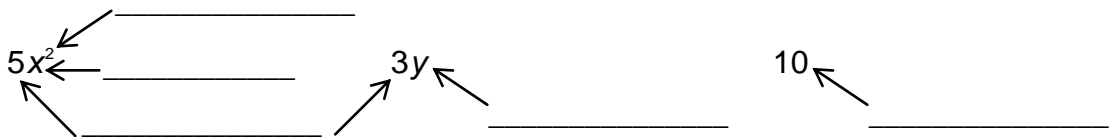


Vocabulary	Definition	Example
Expression		
Equation		
Variable		

Terms:



Decide if each problem is an equation or an expression. If it is an expression, simplify the expression. If it is an equation, solve the equation.

1. $2x - 3(x - 4)$ Expression OR Equation

2. $2.1x + 1.5 = 13.05$ Expression OR Equation

3. $\frac{3}{4}x - 8 = -2$ Expression OR Equation

4. $\frac{x}{2} + \frac{2}{3}$ Expression OR Equation

a number (x)	
Addition	Subtraction
<ul style="list-style-type: none"> • sum • increased by • more than • plus 	<ul style="list-style-type: none"> • difference • decreased by • less than * • minus
Multiplication	Division
<ul style="list-style-type: none"> • product • times • twice (2 times) • of 	<ul style="list-style-type: none"> • quotient • divided by • half (divided by 2)
Powers	
<ul style="list-style-type: none"> • squared • cubed • to the _____ power 	
is (=)	

1. 12 is 5 times a number increased by 2 Expression OR Equation

2. Twice the difference of a number and 8 Expression OR Equation

3. 5 less than a number squared is equal to 11 Expression OR Equation

4. Half the sum of a number and 3 is 20 Expression OR Equation

5. The product of a number and 7 Expression OR Equation

Assignment: T2-26 Expressions & Equations

1. Explain the difference between an expression and an equation and give an example of each.

Translate each phrase into an algebraic expression or equation.

- | | | |
|-----|---|------------------------|
| 2. | A number more than 6 is 18 | Expression OR Equation |
| 3. | 4 times the sum of a number and two | Expression OR Equation |
| 4. | The quotient of 9 and a number squared | Expression OR Equation |
| 5. | 9 is the difference of half a number and 7 | Expression OR Equation |
| 6. | 8 less than a number | Expression OR Equation |
| 7. | The cube of a number increased by 3 | Expression OR Equation |
| 8. | The product of a number and -5 is 40 | Expression OR Equation |
| 9. | Twice the sum of a number and 8 | Expression OR Equation |
| 10. | 32 is a number decreased by 12 | Expression OR Equation |
| 11. | A number to the 5 th power divided by -4 | Expression OR Equation |

Decide if each problem is an equation or an expression. If it is an expression, simplify the expression. If it is an equation, solve the equation.

12. $\frac{1}{2}(x-10) = 6$

Expression
OR
Equation

13. $4x - 2(x-7)$

Expression
OR
Equation

14. $2x + 4.8 + 3x = 20.3$

Expression
OR
Equation

15. $7x + 8 = -3x - 12$

Expression
OR
Equation

16. $8 + 3(2x - 5) + x$

Expression
OR
Equation

17. $\frac{1}{4}x + \frac{1}{2} - \frac{3}{4}x$

Expression
OR
Equation

18. $\frac{x+10}{3} = -2$

Expression
OR
Equation

19. $2x + 9 - 5x + 1$

Expression
OR
Equation

20. Two angles are complement. One of the angles is 30 more than twice the other angle. Find the measure of each angle.

21. A segment has a total length of 16 cm. One portion of the segment is 5 less than half the other portion. Find the length of each portion of the segment.