Warm Up
Grade 7

Oct. 12, 2022

let "n" represent a number

1) Write an algebraic expression for " 4 is subtracted from a number that is tripled"

multiply by 3 $3n - 4$

2) Identify the coefficient, variable and constant for each.

	coefficient	Variable	Constant
a) 6x + 21	6	x	21
b) y -3	1	y	3
c) k	1	k	0

Go over homework, pg. 18 # 1-6

1. Expression	Numerical Coefficient	Variable	Constant
(a) $3x + 2$	3	x	2
(b) $5n$	5	n	— or 0
(c) $w + 3$	1	w	3
(d) $2p + 4$	2	p	4

2. variable p, numerical coefficient 7, constant 9

$7p + 9$ $\boxed{7p - 9}$

3. (a) six more than a number

$m =$ the number

$m + 6$

 (b) a number multiplied by eight

$s =$ the number

$8 \times s$ or $8s$ or $s \times 8$

 (c) a number decreased by six

$v =$ the number

$v - 6$

(d) a numer divided by four

$z =$ the number

$\dfrac{z}{4}$ $(z \div 4)$

4 $4 for each hour babysitting

(i) 5 h $4 \times 5 = \$20$

(ii) 8 h $4 \times 8 = \$32$

(b) for t hours

$4 \times t$

5. (a) double a number and add three

$d = $ the number
$2d + 3$

(b) subtract five from a number, then multiply by two

$n = $ the number
$(n - 5) \times 2$

(c) divide a number by seven, then add six

$p = $ the number
$\dfrac{p}{7} + 6$

(d) a number is sutracted from twenty eight

$r = $ the number
$28 - r$

(e) twenty eight is subtracted from a number

$u = $ the number
$u - 28$

6. (a) four more than a number

$a = $ the number (for all)

$a = $ the number

$a + 4$

(b) a number added to four

$4 + a$

(c) four less than a number

$a - 4$

(d) a number subtracted from four

$4 - a$

What are the differences? likes?

4 less than 9 $9 - 4 = 5$

4 less than 15 $15 - 4 = 11$

4 less than 20 $20 - 4 = 16$

4 less than 85 $85 - 4 = 81$

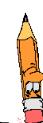4 less than a number $a - 4$

Evaluating Expressions

Remember to follow

B**E**DMAS

We have been saying that a variable is an unknown value. However, sometimes you will be given the value of the variable and you will be asked to evaluate the expression. In other words, you have to find the value of the expression by substituting the given value for the variable.

Examples:

1. Evaluate the following.

(a) a + 9, if a = 20	(b) 35 - g, if g = 14	**(c) 7m, if m = 11
(20) + 9 = 29	35 − (14) 21	7 × (11) 77
(d) 4e + 6, e = 8	(e) t / 6 + 11, t = 24	(f) 8c - 5, c = 2
4(8) + 6 32 + 6 38	(24)/6 + 11 4 + 11 15	8(2) − 5 16 − 5 11

2. Evaluate the expression 3r + 7 for :

(a) r = 8	(b) r = 5	(c) r = 10
3r + 7 3(8) + 7 24 + 7 31	3r + 7 3(5) + 7 15 + 7 22	3r + 7 3(10) + 7 30 + 7 37

Need more practice....

Evaluate by replacing v with 3. show work

Remember to follow

B DMAS

a) $v + 7$

$(3) + 7$

$\boxed{10}$

b) $2v - 1$

$2(3) - 1$

$6 - 1$

$\boxed{5}$

c) $13 - 3v$

$13 - 3(3)$

$13 - 9$

$\boxed{4}$

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#7 (d,e,f)

#8 (a,b,c,d,e,f) } Show Work

#9 (a,b,c)

#10 (a,b,c,d,e,f)