THIRD SPACE LEARNING

HELLO!

Today we are going to learn about substituting into simple expressions

Warm up to substituting into simple expressions

1. What is the formula for finding the area of a rectangle?

2. What is the formula for finding the perimeter of a rectangle?

3. Given that the length of a rectangle is 16cm and the width is 2cm, what is the area and perimeter of the rectangle?

4. Given that $C = \frac{5}{9}(F - 32)$, what is the value of C when F = 41?

5. Use inverse operations to find the value of F when C is 30.

THIRD SPACE LEARNING

Substituting into simple expressions

In this session we are going to learn:

- To understand the meaning of different types of expressions
- To substitute positive and negative integers into expressions

Rules

$2a = 2 \times a$

$ab = a \times b$

$cd = c \times d$

$\frac{a}{b} = a \div b$

$ab^2 = a \times b^2 = a \times b \times b$

$(ab)^2 = (a \times b)^2 = (a \times b) \times (a \times b)$

You are learning about substituting into simple expressions

Rules

Write equivalent expressions for:

1. $\frac{p}{r}$ = ☐

2. $4 \times g$ = ☐

3. bca = ☐

Applying rules

When $a = 5$, $k = 6$, $t = 1$ and $d = 3$ find:

1. $a + k =$

2. $k + d + t =$

3. $ad =$

4. $= \frac{k}{d}$

5. $adt =$

6. $\frac{a + k + t}{d} =$

Code

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13
n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

Use the value of the letters above.

	1) $t - a$	2) cg	3) d^2	4) $\frac{y}{e}$	5) acf
Answer					
Letter					

Practice time

If $b = 3$, $c = 6$ and $a = 12$, find the value of these expressions.

1. $\frac{a}{c} =$ ☐

2. $4 + a =$ ☐

3. $a - 4b =$ ☐

4. $b - \frac{a}{c} =$ ☐

5. $b^2 =$ ☐

6. $ab =$ ☐

Practice time

7. Crack the code.

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13
n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

	$2c + b$	ce	$z - c$		$cb - e$	$d^2 + b$	$\frac{y}{e}$		e^2	$\frac{ef}{b}$	$2l - c$	
Answer												
Letter												

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What part of this session gets a 'thumbs up' from you?