



THIRD SPACE
LEARNING



1

HELLO!

Today we are going to learn about
substituting into simple expressions

Warm up to substituting into simple expressions

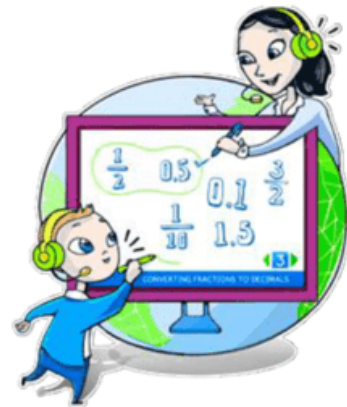
1. What is the formula for finding the area of a rectangle?
2. What is the formula for finding the perimeter of a rectangle?
3. Given that the length of a rectangle is 16cm and the width is 2cm, what is the area and perimeter of the rectangle?
4. Given that $C = \frac{5}{9}(F - 32)$, what is the value 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

$$2a = 2 \times a$$

$$ab = a \times b$$

$$cd = c \times d$$

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

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

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

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. $a + k =$

$$\boxed{} + \boxed{} = \boxed{}$$

2. $k + d + t =$

$$\boxed{}$$

3. $ad =$

$$\boxed{} \boxed{} = \boxed{}$$

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

$$\boxed{} \frac{\boxed{}}{\boxed{}} = \boxed{}$$

5. $adt =$

$$\boxed{}$$

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

$$\boxed{}$$

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. $\frac{a}{c} =$

4. $b - \frac{a}{c} =$

2. $4 + a =$

5. $b^2 =$

3. $a - 4b =$

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												

Substituting into simple expressions

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

