





SUPER 12s CAN BE USED AS AN **INDIVIDUALISED** MASTERY LEARNING PROGRAM.

2 ALGEBRA

2.9 SUBSTITUTION

2.9 LEVEL 1

NAME:

Skill description: Evaluating terms by substituting positive values for variables.

Essential Revision

1. Write the correct algebraic $\{2.$ Solve for the unknown. term for:

x divided by 15

 \blacksquare + 6 = 12

Solve for the variable.

r + 9 = 17

13 - 9 =

term for:

12 multiplied by x

5. Write the correct algebraic $\{6.\}$ Solve for the variable.

x + 5 = 20

?	7.	Write	the	correct	algebraic
\langle	term	for:			<

y divided by 8

$$h - 7 = 12$$

20 - 4 =

$$f + 11 = 18$$

$$\blacksquare$$
 + 17 = 22

r multiplied by 22

Solutions can be found at the end of the booklet.

STRATEGIES TO SOLVE THE PROBLEMS

Substitution

Remember from algebraic conventions:

$$3p = 3 \times p$$

Indicates 3 multiplied by p.

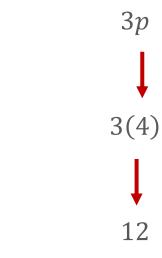
Example 1

Evaluate.

$$3p$$
 if $p=4$

Step 1

Substitute the value of 4 in for p.





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Example 2

Evaluate.

$$6x$$
 if $x = 4$

Step 1

Substitute the value of 4 in for x.



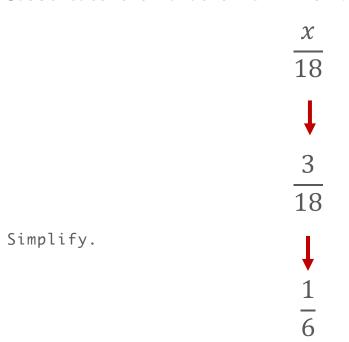
Example 3

Evaluate.

$$\frac{x}{18}$$
 if $x = 3$

Step 1

Substitute the value of 3 in for x.



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OUESTIONS

Evaluate and simplify your answer.

1.

$$7x$$
 if $x = 3$

2.

$$\frac{y}{9}$$
 if $y=3$

3.

$$2p$$
 if $p=4$

4

$$\frac{21}{y}$$
 if $y=7$

5.

$$8m$$
 if $m=3$

6.

$$\frac{t}{100}$$
 if $t = 25$

$$11n \text{ if } n = 5$$

$$\frac{x}{4}$$
 if $x = 16$

$$5a$$
 if $a = 12$

$$\frac{v}{6}$$
 if $v=16$

$$\frac{15}{t}$$
 if $t=3$

$$8e$$
 if $e=7$



SOLUTIONS CAN BE FOUND AT THE END OF THE BOOKLET.

score

12

MASTERY TEST

Teacher's signature

I'VE COMPLETED

LEVELS THIS YEAR





Solutions to Essential Revision

1.
$$\frac{x}{15}$$

$$3. \quad r = 8$$

6.
$$x = 15$$

8.
$$h = 19$$

10.
$$f = 7$$

Solutions to Questions

$$2. \frac{1}{3}$$

6.
$$\frac{1}{4}$$

10.
$$\frac{8}{3}$$