

Skill description: Introduction of variables & solving equations with the multiplication/division of integers.







STRATEGIES TO SOLVE THE PROBLEMS

Strategy 1 - Apply the inverse operation to both sides.

For any constants on the same side of the equal sign as the desired variable, apply the inverse operation (of that constant) to both sides of the equation.

Example 1

 $\frac{1}{2}$

Find the value of the variable.

$$\frac{x}{7} = 5$$

Take the number (7) on the same side as the variable and apply the inverse operation (X) to both sides of the equation.



 $\ensuremath{\mathbb{C}}$ Super 12s Visit super12s.com for copyright details.

Visit super12s.com for more than 200 Algebra booklets just like this one!

Strategy 2 - Change the side, change the sign.

For any constants on the same side of the equal sign as the desired variable, move to the other side and apply the inverse operation.

Example 2

Find the value of the variable.

$$\frac{x}{4} = 6$$

Take the 4 and move it to the other side of the equation and change the sign from \div to \times . Remember the 4 is connected to the x by division (shown as a fraction).



$$x = 6 \times 4$$

x = 24



 $\ensuremath{\textcircled{}^\circ}$ Super 12s Visit super12s.com for copyright details.

Visit super12s.com for more than 200 Algebra booklets just like this one!





MASTERY TEST	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
› › ›	
> > > >	
› › › ›	
> > > >	
> > > > >	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
; leacher's signature }	<pre></pre>
	***************************************
I VE COMPLETED	SUPER IPS CELEBRATING PROGRESS This certificate is awarded to CELEBRATING PROGRESS This certificate is awarded to
LEVELS THTS YEAR	For completing CO mathematics levels this year For completing CO mathematics levels this year (dises levels this year (dises levels))
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Solutions to Essential Revi	sion
1. 21	2. ■ = 12
3. $x = 29$	4. x = 7
5. 13	6. ■ = 8
7. $r = 8$	8. y = 4
9. 17	10. ■ = 5
11. $y = 12$	12. <i>p</i> = 5
Solutions to Ouestions	
1. $x = 42$	$2 \cdot v = 24$
3. $p = 15$	$4 \cdot m = 4$
5. $x = 42$	6. r = 24
7. $y = 72$	$\{8. t=81\}$
9. $h = 28$	10. z = 84
11. $f = 21$	12. g = 24
© Super 12s \	/isit super12s.com for copyright details.

Visit super12s.com for more than 200 Algebra booklets just like this one!