

Thursday (hard) – LO: to solve two-step equations.

Varied fluency


Reasoning and problem solving

9a. Are the following statements true or false?

i. If  $x = 12$ , then  $0.75x = 9$


ii. If  $y = 7$ , then  $3y \div y = 5$

iii. If  $z = 9$ , then  $7 - z = -1$

 VF


10a. What is the correct value of  $c$ ?

$$\frac{1}{5}c + 48 = 60$$

 VF

11a. Match each equation to the correct value of  $a$ .

$18a + 24 = 30$	$a = 4$
$9a + 17 = 21.5$	$a = \frac{1}{3}$
$-5 = 6a - 29$	$a = 0.5$

 VF

12a. Fill in the missing operations to show how to solve the equation below.


$$28x + 6.3 = 10.3$$

↓

$$28x = 4$$


↓

$$x = \frac{1}{7}$$

 VF

7b. Using the cards below and any of the four operations, create three balanced equations where  $x = 0.25$ .


<input type="text" value="9"/>	<input type="text" value="2"/>	<input type="text" value="16x"/>
<input type="text" value="-2"/>	<input type="text" value="12x"/>	<input type="text" value="6"/>

 PS

8b. Choose a value for  $c$  and find three possibilities to complete the following equations.


$$\square c \div \square = 4$$

$$\square c - \square = -1$$


 PS

9b. Oscar and Kelly are solving the following algebraic equation.

$$24x - 20.4 = -2.4$$


 x must be 0.75 for this equation to be balanced.

Oscar

This equation is incorrect as the answer is a negative number. 

Kelly

Who is correct? Prove it.

 R