

Monday (hard) – LO: to find and calculate with a one-step rule.

Varied fluency

Reasoning and problem solving

9a. Match the function to its equivalent algebraic rule.

10 times smaller than $x$	$10 + x$
10 more than $x$	$0.25x$
10 less than $x$	$\frac{x}{10}$
A quarter of $x$	$x - 10$

★ VF

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10a. Circle the function being used here.

6.5	?	-10.5
9		-3
13		6

$a - 17$     $a - 30$     $3a - 30$

★ VF

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11a. Work out the missing inputs and outputs for this function machine.

?	÷ 5	$x$
10.5		?
$a$		?

★ VF

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12a. Match the equation to its answer if  $v = 9.9$

$2v$	19.8
$2.8 - v$	5.4
$\frac{v}{3}$	3.3
$-4.5 + v$	-7.1

★ VF

7a. Mika has half as much on his credit card as Yasmin has in her bank account. If Yasmin has  $£x$  in her account, which of these are true?

A) Mika has  $x - 2$  pounds



B) If Mika has  $£17.54$ , Yasmin has  $£35.08$

C) Mika has  $\frac{x}{2}$  pounds

★ PS

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8a. Write an algebraic expression to show how much toothpaste there is if cleaning spray equals  $z$ .

★ PS

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9a. Four of the cards are inputs or outputs of the function machine.

Circle the odd one out.

21   48   12   28   36

?

→  $\times 0.75$  → ?

Explain your reasoning.

★ R