

Thursday (medium) – LO: to substitute symbols and letters for numbers.

Varied fluency

Reasoning and problem solving


5a. Match the expressions to their values.

If  $\star = 5$  and  $\bullet = 2$ .

A.  $\star + \star - \bullet$

B.  $\bullet + \star + \bullet$

C.  $\star + \star + \star$


 VF

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6a. True or false?

if  $x = 10$ ,  $y = 2$  and  $z = 5$ .

$$3x + y + z = 37$$

 VF


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7a. Tick the substitution used for this expression if the value is 75.

$r \times (p \times q)$

$p = 10, q = 2.5, r = 3$


$p = 10, q = 3, r = 2$


 VF


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8a. Who is correct?

$a = 12$  and  $b = 6$

  $a \times b$  is  $12 \times 6 = 72$

  $a \times b$  is  $12 \times 4 = 48$


 VF

4a.

$$a = 3b - 4$$


$$c = a + 10$$

Evie says:

  $\text{If } b = 5 \text{ then } c = 20.$

Is she correct?

Explain your answer.

 R

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5a. Jaiden is calculating the perimeter of a rectangle.


He is using the equation  $P = 2a + 2b$ .

$a$

$b$

When  $a = 6.5\text{cm}$ , he calculates that  $P = 19\text{cm}$ .

What is the value of  $b$ ?

 *Not to scale* PS


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6a. True or false?

$$a = bc - 5$$

When  $b = 10$  and  $c = 9$ ,  
 $a = 14$ .

Explain your answer.

 R