

Varied Fluency 2

Circle the correct answer.

$$\text{If } a = \frac{1}{4}, b = 10 \text{ and } c = 7.$$

$$(8a + c) \times b = ?$$

84

90

87

The correct answer is...

Varied Fluency 3

Tick the substitution used for this expression if the value is 4.

$$(2q - 2p) \div r$$

$$p = 0.5, q = 2.5, r = 10$$

$$p = 0.5, q = 2.5, r = 1$$

$$p = 0.5, q = 2.5, r = 2$$

Varied Fluency 4

Complete the calculations using the values below.

$$\heartsuit = 10 \text{ and } \blacklozenge = 0.25$$

A. $(\blacklozenge \times \heartsuit) + \blacklozenge$

B. $\heartsuit + \heartsuit + \heartsuit$

C. $\heartsuit - \blacklozenge + \heartsuit$

Reasoning 1

Sophie is looking at the values below:

$$a = 5b \div 2$$

$$c = a + 5.5$$

She says,



If $b = 8$ then $c = 25$

Is she correct?

Explain your answer.

Problem Solving 1

Use the equation below to work out the value of a and b .

$$a = 3b + 7$$

$$b = 3 + 5 \times \frac{1}{2}$$

$$a = \square \quad b = \square$$

Reasoning 2

True or false?

$$a = (5b \div 2) - 8c$$

**When $b = 6$ and $c = 0.25$,
 $a = 28$**

Explain your answer.