

# Mathematics

## ANSWER KEY

1.  $100 \times 50$

2. a rotation of  $180^\circ$  about point P,  
then a translation 2 units to the  
right

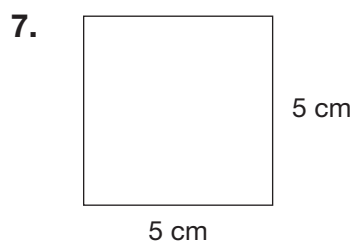
3.  $208 \text{ cm}^2$

4. 5

5.

Term number	Term
1	3
2	8
3	18
4	38

6. 3



8. *Open-Response*

9. *Open-Response*

10. *Open-Response*

11. *Open-Response*

12. 7500 mm

13.  $\frac{4}{13}$

14. 4.542 seconds

15. 16

16. Point X

17.  $a + b = 12$

18.  $8 \text{ cm}^3$