



Name			
Class	A	Term	3
Year	8	Quiz Number:	2

1. (a) Write in standard form 35000

(2)



.....

(b) Write as an ordinary number 1.2×10^3

.....

2. (a) Write in standard form 0.00079



.....

(b) Write as an ordinary number 4.7×10^{-2}

.....



3. Circle the rational numbers

(1)

π $\sqrt{9}$

 $0.1111\dots$

 4 $\sqrt{2}$

 $\frac{1}{3}$

4. x is an irrational number between 7 and 10. Find a value for x .

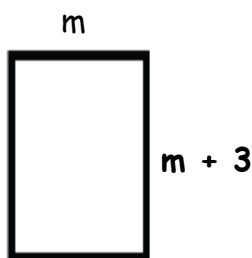
..... (1)

5. Write an algebraic expression for each of the following

x multiplied by 2 and then add 3

..... (1)

6. Write an expression for the perimeter of the shape below.



..... (1)



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7. If $x = 6$ and $y = -2$, find the value of



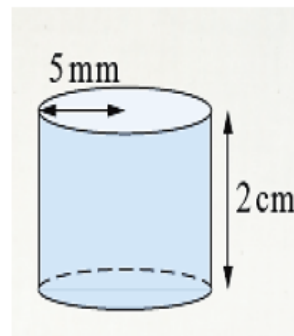
(a) x^2

..... (1)

(b) $5x + y$

..... (1)

8. Work out the volume of this cylinder.



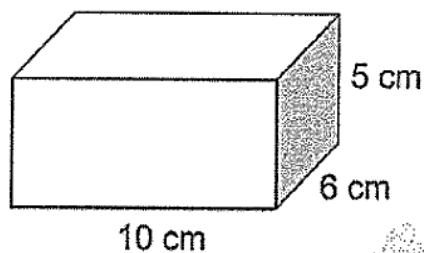
(2)

..... cm^3

9. Here is a cuboid.

Diagram NOT accurately drawn

What is the total surface area of the cuboid? State the units with your answer.



(2)

..... cm^2



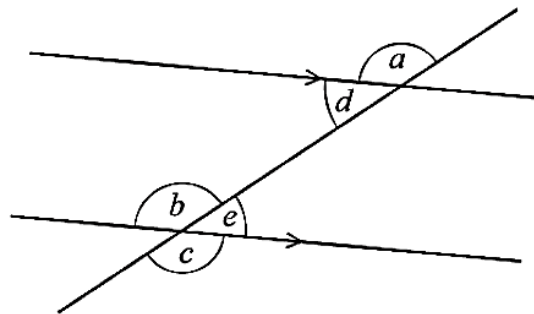
10. Simplify the following:

(a) $8p^4 \times 4p^8$ (1)

(b) $16f^7g^2 \div 4f^3g$ (1)

(c) $(3y^3)^3$ (1)

11. a. The diagram shows a pair of parallel lines with a straight line crossing them and some angles marked with letters.



(3)

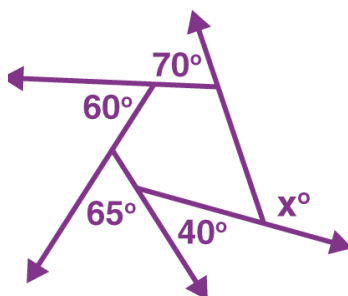
Complete these sentences with the correct letters.

Angles and are alternate angles.

Angles and are corresponding angles.

Angles and are vertically opposite angles.

b. Find the value of x



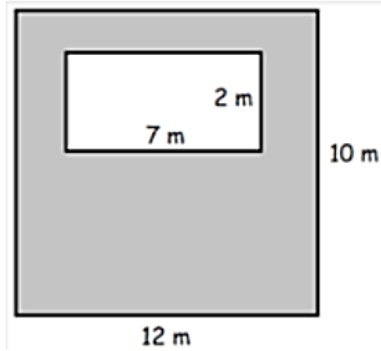
(1)

x =

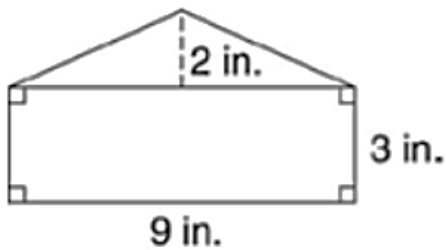


12. Complete:

(a) The area of the shaded region = m^2 (2)



(b) The area of the polygon = in^2 (2)



13. Complete with the right answer:

a) We can find the sum of the interior angles of any polygon using the rule (2)

.....

b) Workout the sum of interior angles of a polygon with 9 sides

Total Marks	
	25