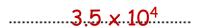


Name			
Class	Α	Term	3
Year	8	Quiz Number:	3

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



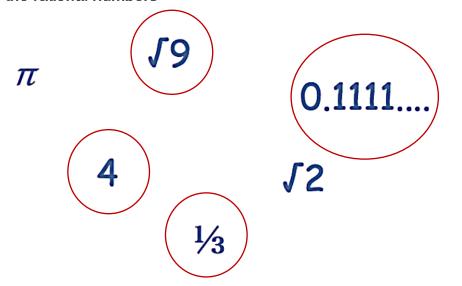
$$7.9 \times 10^{-4}$$

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

0,047



3. Circle the rational numbers



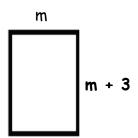
4. x is an irrational number between 7 and 10. Find a value for x.

Answers may vary, Ex. $\sqrt{56}, \sqrt{63}, \sqrt{70}, \sqrt{72}, \sqrt{90}$.

5. Write an algebraic expression for each of the following x multiplied by 2 and then add 3

2x + 3

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



4m + 6 (1)

(1)

(1)



- 7. If x = 6 and y = -2, find the value of
 - (a) x^2



36(1)

(b) 5x + y

28

8. Work out the volume of this cylinder.

$$5 \text{ mm} \div 10 = 0.5 \text{ cm}$$

$$V = \pi r^2 h$$

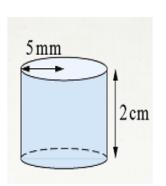
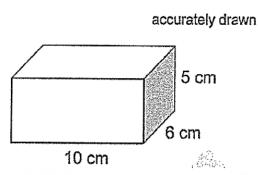


Diagram NOT

Volume = $1570 \text{ mm}^3 \text{ or } 1.57 \text{ cm}^3$

9. Here is a cuboid.

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



10. Simpfify: the if of lawling: $WH + HL = 2(60 + 30 + 50) = 280 \text{ cm}^2$

(2)

(2)



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

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

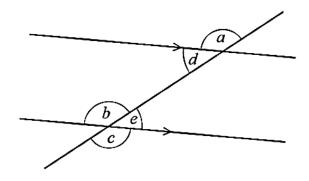
$$(3)^{3}(y^{3})^{3} = 27y^{9}$$

11. a.

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

(3)

(1)



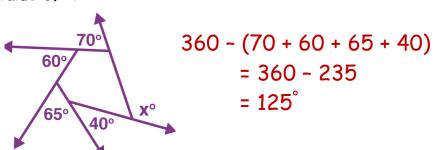
Complete these sentences with the correct letters.

Angles d and e are alternate angles.

Angles **b** and **a** are corresponding angles.

Angles and are vertically opposite angles.

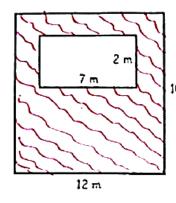
b. Find the value of x



$$x = 125^{\circ}$$

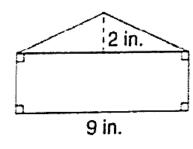
12. Complete:

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



Area of the shadod part= 120-14 =106

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



Area of $\Delta = \frac{1}{2}BH = \frac{1}{2}\times 9\times 2 = 9$ in

3 in. Area of $\Box = Lxw = 9\times 3 = 27$ Total area = 27 + 9 = 36 in²

13. Complete with the right answer:

(2)

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

$$(n - 2) \times 180^{\circ}$$

b) Workout the sum of interior angles of a polygon with 9 sides 1260

Total		
Marks	25	