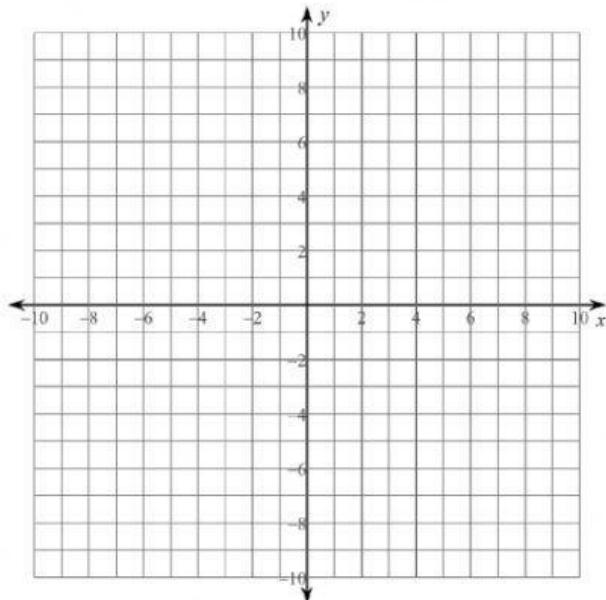




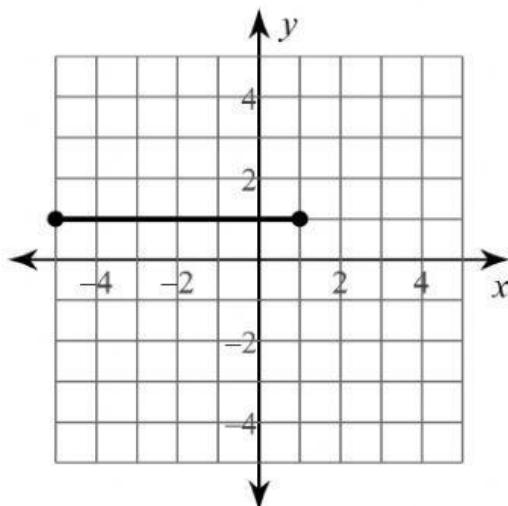
13) Plot and label the following points on the grid.

$$I(-10, 5) \quad J(-9, 7) \quad K(-1, 3) \\ L(3, -7) \quad M(6, 3)$$



14) What are the coordinates of the midpoint of the line plotted below?

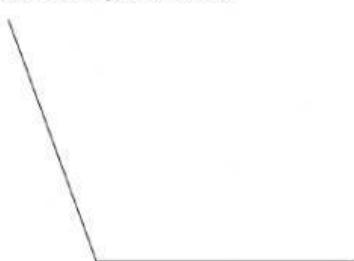
$$\dots (\dots, \dots)$$



15) Estimate the size of the following angles to the nearest 10°

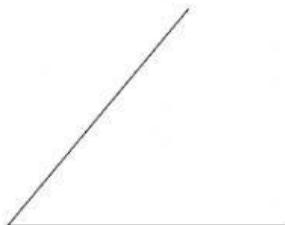
Do not use a protractor.

(a)



(a) $\underline{\quad}$ $^\circ$

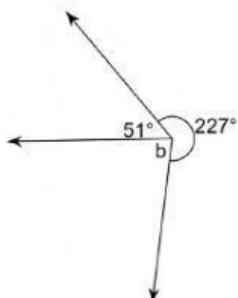
(b)



(b) $\underline{\quad}$ $^\circ$

16) Without using a protractor, calculate the size of the angles marked b

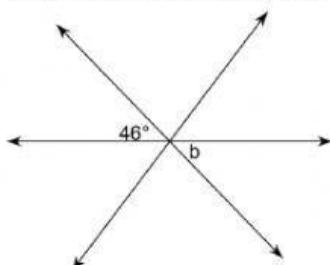
(a)



$$b = \underline{\hspace{2cm}}^\circ$$

Reason:

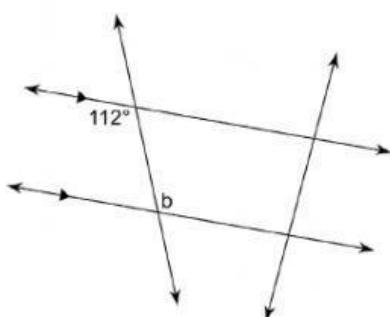
(b) These are three intersecting lines.



$$b = \underline{\hspace{2cm}}^\circ$$

Reason:

(c)



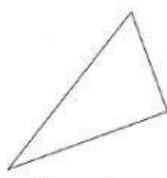
$$b = \underline{\hspace{2cm}}^\circ$$

Reason:

17) Classify the following triangles.

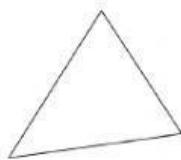
Choose all that apply.

(a)



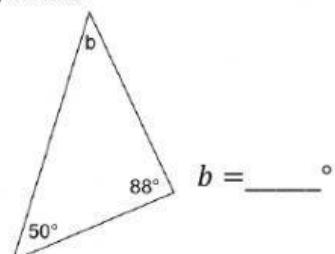
A) acute
C) right
B) obtuse
D) scalene

(b) .



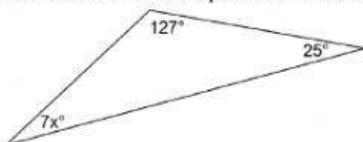
A) right
C) acute
B) obtuse
D) scalene

18) Find b



$$b = \underline{\hspace{2cm}}^\circ$$

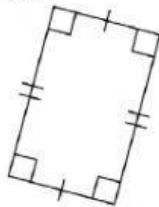
19) Construct an equation and solve for x



$$x = \underline{\hspace{2cm}}$$

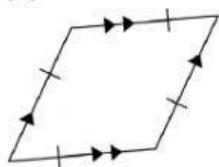
20) Complete the table with the most accurate name for these quadrilaterals. Use the list given.

(a)



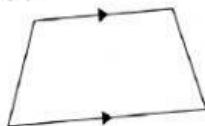
(a) _____

(b)



(b) _____

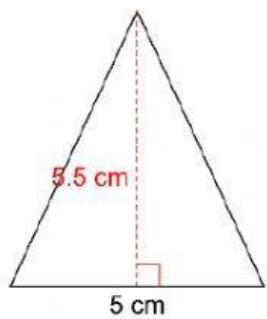
(c)



(c) _____

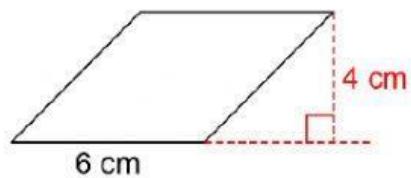
21) Find the area of the following polygons.

(a)



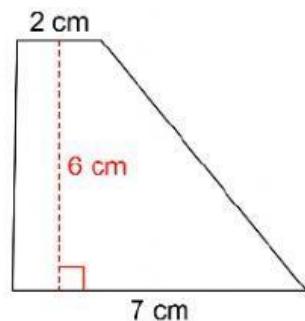
(a) _____ cm^2

(b)



(b) _____ cm^2

(c)



(c) _____ cm^2

22) Simplify the following expressions.

(a) $-2 + 3b + b - 3 - 1 - 2b$ _____

(b) $-m + 3 - 1 - 2m + 3 + 2m$ _____

(c) $4(8x + 3)$ _____

(d) $-x(-5x + 6)$ _____

(e) $2 + 7(3x - 4)$ _____

(f) $-1 + 7(-7x + 10)$ _____

23) Solve the following equations

(a) $x - 17 = 15$ $x =$ _____

(b) $x - 17 = -33$ $x =$ _____

(c) $\frac{n}{8} = 10$ $n =$ _____

(d) $2 + m = 13$ $m =$ _____

(e) $11y = -77$ $y =$ _____

(f) $\frac{x}{4} - 2 = 7$ $x =$ _____

(g) $3x + 4 = 25$ $x =$ _____

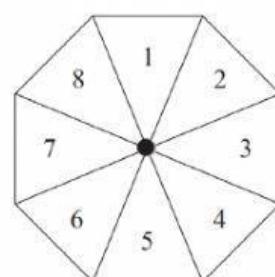
24) Find the value of

$$5r + 3x + 2e$$

when $r = 4$, $x = 6$ and $e = 6$ _____

25) A spinner is made in the shape of a regular octagon.

The sections are numbered 1 to 8.



Calculate the following probabilities then write your answer in simplest form.

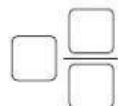
(a) What is the probability of landing on 7? _____

(b) What is the probability of landing on a multiple of 2? _____

(c) What is the probability of landing on a number greater than 2? _____



26) Write the quotient of $36 \div 5$ as a mixed number.



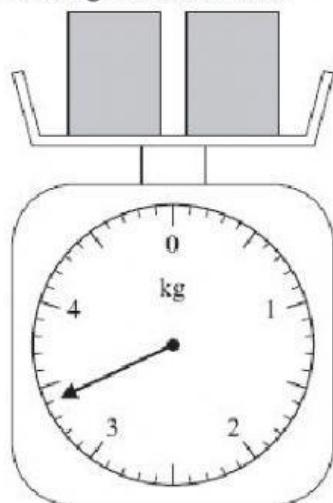
27) Reading scales.

(a) What is the temperature of the oven?



_____ °

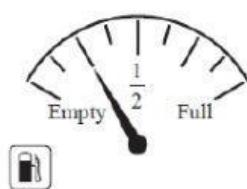
(b) What is the weight of each box?



_____ kg

(c) A petrol tank holds 48 litres of petrol when it is full.

Use the scale to find how many litres are left in the tank.



_____ litres