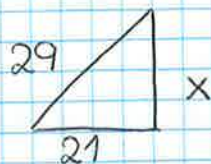
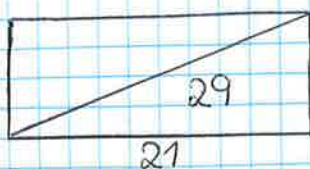


20-



$$29^2 = 21^2 + x^2$$

$$841 = 441 + x^2$$

$$841 - 441 = x^2$$

$$400 = x^2$$

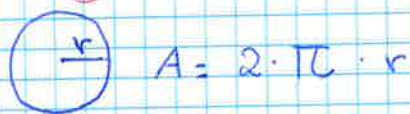
$$x = \sqrt{400} = 20 \text{ cm mide el otro lado.}$$

18/5/22

## UNIDAD 10: LONGITUDES Y ÁREAS.

- **Perímetro**: suma de las longitudes de todos los lados de un polígono.

### Circunferencia



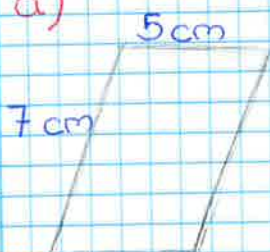
$$A = 2 \cdot \pi \cdot r$$



$$L_{\text{arco}} = \frac{2 \cdot \pi \cdot r \cdot n^\circ}{360^\circ}$$

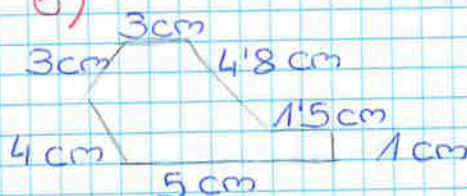
1.

a)



$$p = 2 \cdot 7 + 2 \cdot 5 = 24 \text{ cm}$$

e)



$$p = 4 + 5 + 1 + 1.5 + 4.8 + 3 \cdot 2 = 22.3 \text{ cm}$$

2.



$$p = 5 \cdot 15 = 75 \text{ m}$$

Necesitamos  $3 \cdot 75 = 225 \text{ m}$  de alambre

3.

a)

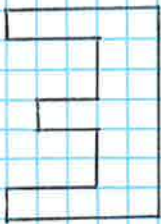


$$B = \frac{32}{3}$$

$$C = \frac{32}{5}$$

$$A = 4a + 6a + 4a + 6a + 4a + 2a + 4a + 2a = 32a$$

e)

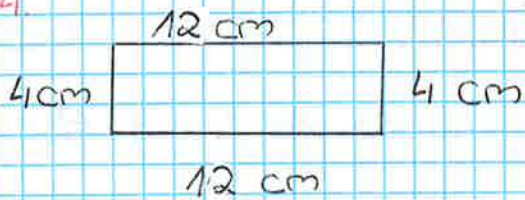


$$A = 34a$$

$$B = \frac{34}{3}$$

$$C = \frac{34}{5}$$

4.

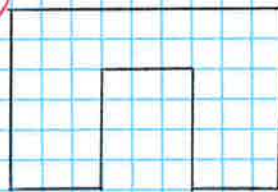


5.

a)



e)



a)

$$32 \nabla = 32 \square = 64 \triangle = 16 \square\square$$

e)

$$42 \nabla = 42 \square = 84 \triangle = 21 \square\square$$

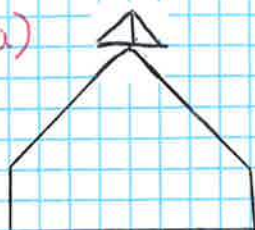
6.

$$p = 28$$

$$a = 4$$

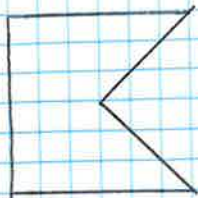
54

a)



$$22 \nabla = 22 \square = 44 \triangle = \frac{22}{4} = \frac{11}{2}$$

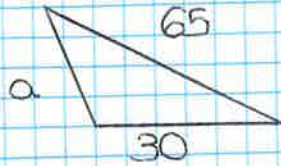
e)



$$27 = 27 = 54 = \frac{27}{2}$$

55.

a)

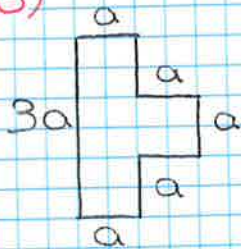


$$65 + 30 + a = 120$$

$$65 + 30 - 120 = a$$

$$25 = a$$

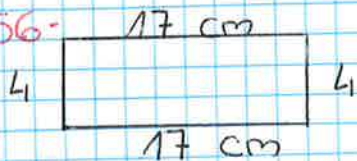
e)



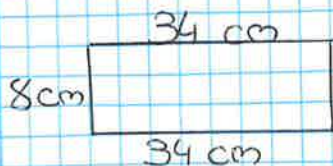
c)

d)

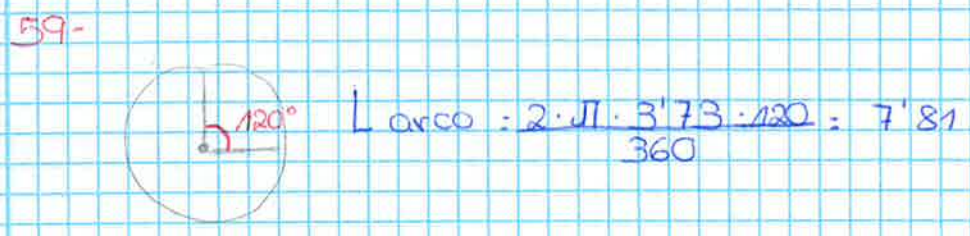
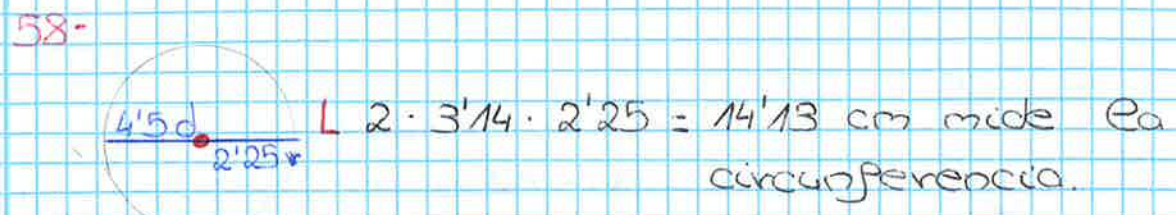
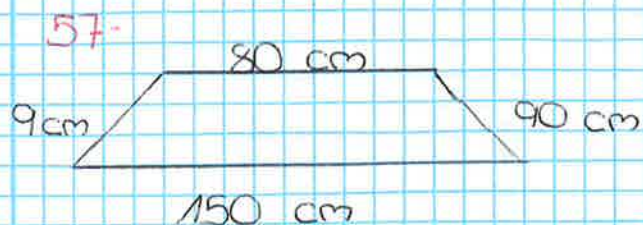
56.



$$p = 42 \text{ cm}$$

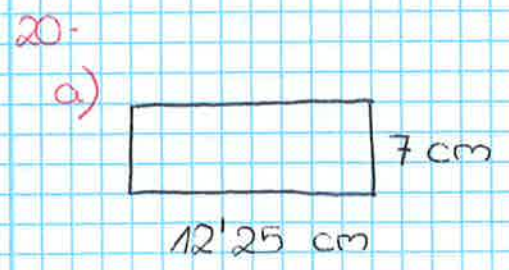


$$p = 84$$

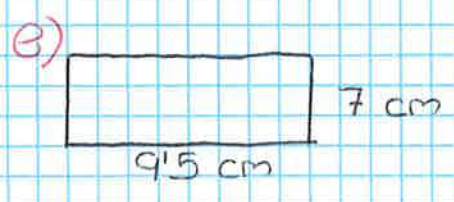


23/5/22

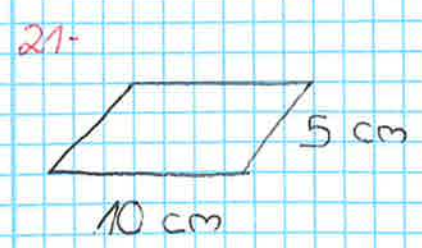
- 19-
- a)  $2^2 = 4$
  - b)  $2'5 \cdot 1'5 = 3'75$
  - c)  $2'5 \cdot 1'5 = 3'75$
  - d)  $\frac{1'5 \cdot 1}{2} = 0'75$
  - e)  $1'5 \cdot 2'5 = 3'75$



$A = 12'25 \cdot 7 = 85'75$

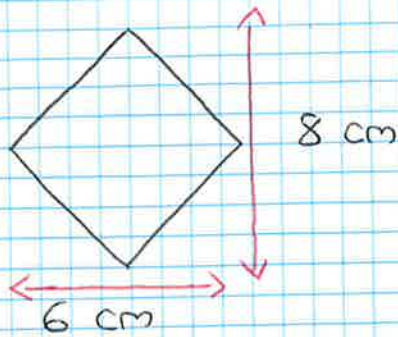


$A = 9'5 \cdot 7 = 66'5$



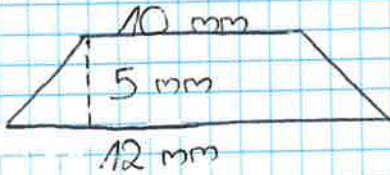
$A = 10 \cdot 5 = 50$  cm

22-



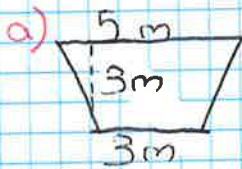
$$A = \frac{6 \cdot 8}{2} = 24 \text{ cm}$$

23-



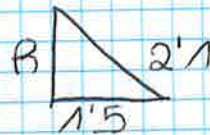
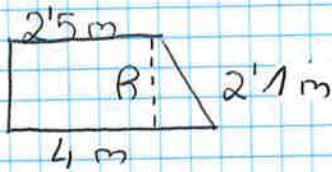
$$A = \frac{(10+12) \cdot 5}{2} = 55 \text{ mm}$$

24-



$$A = \frac{(5+3) \cdot 3}{2} = 12 \text{ m}$$

b)



$$2.1^2 = 1.5^2 + B^2$$

$$4.41 = 2.25 + B^2$$

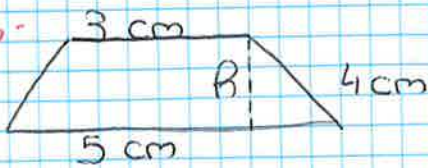
$$4.41 - 2.25 = B^2$$

$$2.16 = B^2$$

$$B = \sqrt{2.16} = 1.47$$

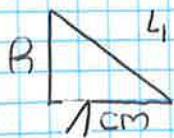
$$A = \frac{(2.5+4) \cdot 1.47}{2} = 4.78 \text{ m}^2$$

26-



$$P = 3 + 5 + 4 \cdot 2 = 8 = 16 \text{ cm}$$

$$A = \frac{(5+3) \cdot 3.87}{2} = 15.48 \text{ cm}$$



$$4^2 = 1^2 + B^2$$

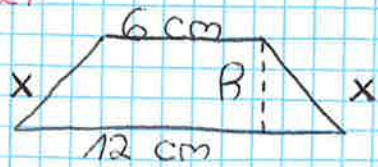
$$16 = 1 + B^2$$

$$16 - 1 = B^2$$

$$15 = B^2$$

$$B = \sqrt{15} = 3.87$$

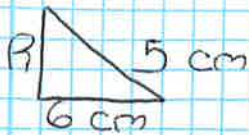
27-



$$P = 28$$

$$12 + 6 = 18 \quad 28 - 18 = 10$$

$10 : 2 = 5$  cm midea (eo)  
Eadao



$$5^2 = 3^2 + B^2$$

$$25 = 9 + B^2$$

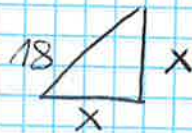
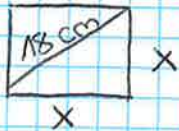
$$25 - 9 = B^2$$

$$16 = B^2$$

$$B = \sqrt{16} = 4$$

$$A = \frac{(6+12) \cdot 4}{2} = 36 \text{ cm}^2$$

28-



$$18^2 = x^2 + x^2$$

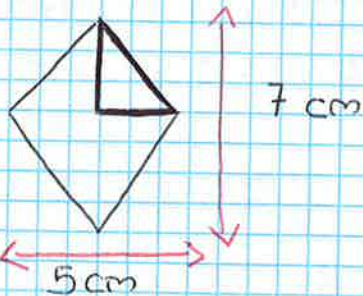
$$324 = 2x^2$$

$$324 : 2 = x^2$$

$$162$$

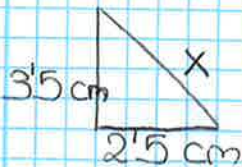
$$A = 162$$

29-



$$A = \frac{7 \cdot 5}{2} = 17'5 \text{ cm}^2$$

$$P = 4'30 \text{ cm}$$



$$x^2 = 2'5^2 + 3'5^2$$

$$x^2 = 6'25 + 12'25$$

$$x^2 = 18'5$$

$$x = \sqrt{18'5} = 4'30$$

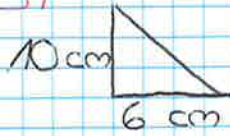
24/5/22

30-



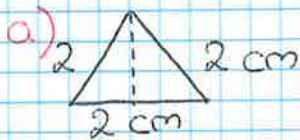
$$A = \frac{7 \cdot 4}{2} = 14 \text{ cm}^2$$

31-

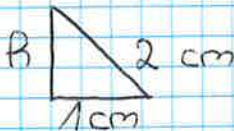


$$A = \frac{6 \cdot 10}{2} = 30 \text{ cm}^2$$

32-



$$A = \frac{1.73 \cdot 2}{2} = 1.73 \text{ cm}^2$$



$$2^2 = 1^2 + B^2$$

$$4 = 1 + B^2$$

$$4 - 1 = B^2$$

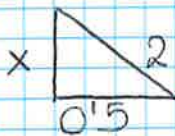
$$3 = B^2$$

$$B = \sqrt{3} = 1.73$$

e)



$$A = \frac{1.73 \cdot 2}{2} = 1.73 \text{ cm}^2$$



$$2^2 = 0.5^2 + x^2$$

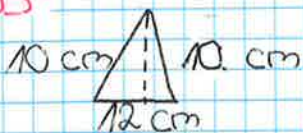
$$4 = 1 + x^2$$

$$4 - 1 = x^2$$

$$3 = x^2$$

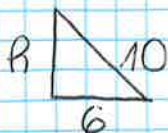
$$x = \sqrt{3} = 1.73$$

33-



$$P = 32$$

$$A = \frac{12 \cdot 8}{2} = 48 \text{ cm}^2$$



$$10^2 = 6^2 + B^2$$

$$100 = 36 + B^2$$

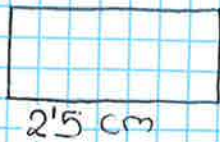
$$100 - 36 = B^2$$

$$64 = B^2$$

$$B = \sqrt{64} = 8$$

68-

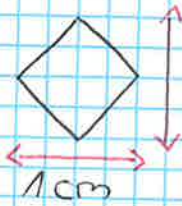
a)



1.5 cm

$$A = 1.5 \cdot 2.5 = 3.75 \text{ cm}^2 \checkmark$$

e)

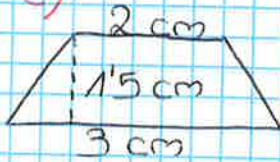


2 cm

1 cm

$$A = \frac{2 \cdot 1}{2} = 1 \text{ cm}^2 \checkmark$$

c)



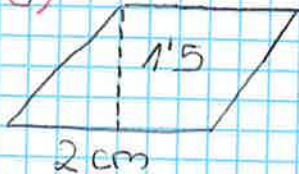
2 cm

1.5 cm

3 cm

$$A = \frac{(2+3) \cdot 1.5}{2} = 3.75 \text{ cm}^2 \checkmark$$

d)

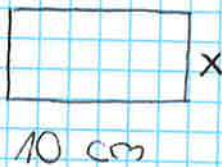


1.5

2 cm

$$A = 2 \cdot 1.5 = 3 \text{ cm}^2 \checkmark$$

69-



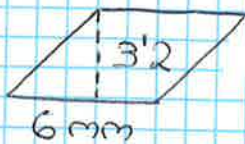
10 cm

$$A = 60 \text{ cm}^2$$

$$60 : 10 = 6 \text{ cm mite}$$

Ea altura.  $\checkmark$ 

70-

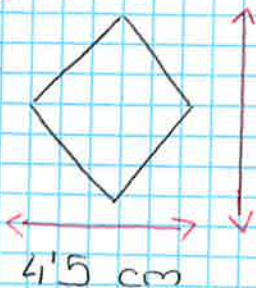


6 cm

3.2

$$A = 6 \cdot 3.2 = 19.2 \text{ cm}^2 \checkmark$$

71-



6.18 cm

4.5 cm

$$A = \frac{6.18 \cdot 4.5}{2} = 13.91 \text{ cm}^2$$



72-

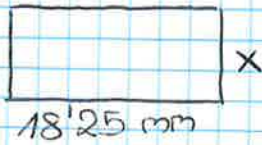


$$P = 2'8 \text{ m}$$

$$2'8 : 4 = 0'70$$

$$A = 0'7^2 = 0'49 \text{ m}^2 \checkmark$$

73-



$$P = 72'5 \text{ mm}$$

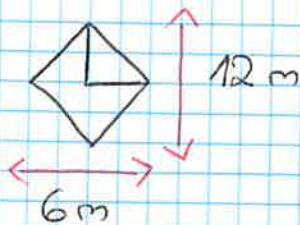
$$18'25 \cdot 2 = 36'5$$

$$72'5 - 36'5 = 36$$

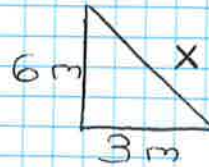
$$36 : 2 = 18$$

$$A = 18'25 \cdot 18 = 328'5 \text{ mm}^2$$

75-



$$A = \frac{12 \cdot 6}{2} = 36 \text{ m}^2$$



$$x^2 = 6^2 + 3^2$$

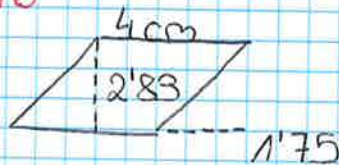
$$x^2 = 36 + 9$$

$$x^2 = 45$$

$$x = \sqrt{45} = 6'71$$

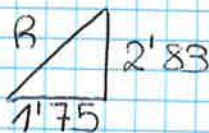
$$P = 6'71 \cdot 4 = 26'84 \text{ m}$$

76-



$$A = 4 \cdot 2'83 = 11'32 \text{ cm}^2 \checkmark$$

$$P = 4 \cdot 2 = 8 + 3'33 \cdot 2 = 6'66 = 14'66 \text{ cm} \checkmark$$



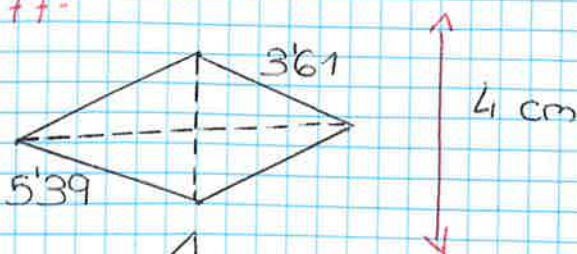
$$R^2 = 2'83^2 + 1'75^2$$

$$R^2 = 8'01 + 3'06$$

$$R^2 = 11'07$$

$$R = \sqrt{11'07} = 3'33$$

77-



$$P = 2 \cdot 3'61 + 2'5'39 = 18 \text{ cm}$$

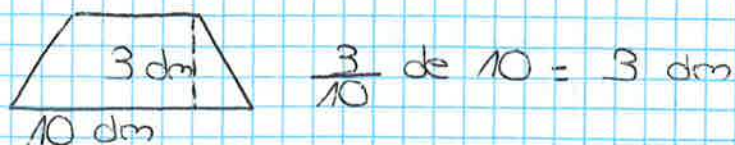


$$5'39^2 = 2^2 + x^2$$



$$3'61^2 = 2^2 + y^2$$

78-



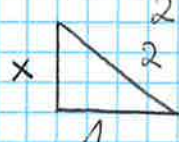
$$A = \frac{(10+3) \cdot 3}{2} = 19'5 \text{ dm}^2$$

79-

a)

$$P = 2 \cdot 3 = 6 \text{ cm}$$

$$A = \frac{1'73 \cdot 2}{2} = 1'73 \text{ cm}^2$$



$$2^2 = 1^2 + x^2$$

$$4 = 1 + x^2$$

$$4 - 1 = x^2$$

$$3 = x^2$$

$$x = \sqrt{3} = 1'73$$

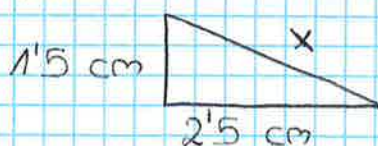
c)



$$P = 12 \cdot 5 = 60 \text{ cm}$$

$$A = \frac{p \cdot a}{2} = \frac{60 \cdot 8'3}{2} = 249 \text{ cm}^2$$

c)



$$P = 2'92 + 2'5 + 1'5 = 6'92 \text{ cm} \checkmark$$

$$A = \frac{2'5 \cdot 1'5}{2} = 1'88 \text{ cm}^2 \checkmark$$

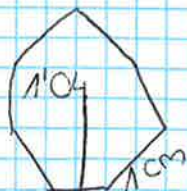
$$x^2 = 2'5^2 + 1'5^2$$

$$x^2 = 6'25 + 2'25$$

$$x^2 = 8'5$$

$$x = \sqrt{8'5} = 2'92$$

d)



$$P = 1 \cdot 7 = 7 \text{ cm}$$

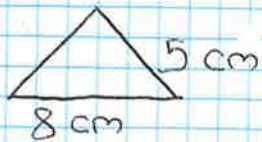
$$A = \frac{1'04 \cdot 7}{2} = 3'64 \text{ cm}^2$$

80-

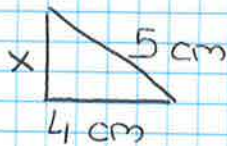
$$A = \frac{60 \cdot 9'23}{2} = 276'9 \text{ cm}^2$$

81-

a)



$$A = \frac{8 \cdot 3}{2} = 12 \text{ cm}^2 \checkmark$$



$$5^2 = 4^2 + x^2$$

$$25 = 16 + x^2$$

$$25 - 16 = x^2$$

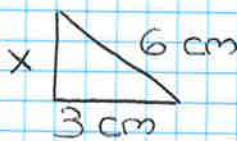
$$9 = x^2$$

$$x = \sqrt{9} = 3$$

e)



$$A = \frac{5'2 \cdot 6}{2} = 15'6 \text{ cm}^2 \checkmark$$



$$6^2 = 3^2 + x^2$$

$$36 = 9 + x^2$$

$$36 - 9 = x^2$$

$$27 = x^2$$

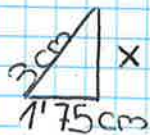
$$x = \sqrt{27} = 5'2$$

82-



$$P = 17'5 \text{ cm}$$

$$A = \frac{17'5 \cdot 2'44}{2} = 21'35$$



$$3^2 = 1'75^2 + x^2$$

$$9 = 3'06 + x^2$$

$$9 - 3'06 = x^2$$

$$5'94 = x^2$$

$$x = \sqrt{5'94} = 2'44$$

30/5/21

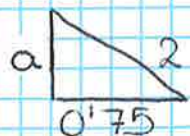
36-

$$P = 12 \text{ cm}$$

$$A = \frac{12 \cdot 1'7}{2} = 10'20 \text{ cm}^2$$

37-

$$P = 1'5 \cdot 8 = 12 \text{ cm} \quad A = \frac{12 \cdot 1'85}{2} = 11'1 \text{ cm}^2$$



$$2^2 = 0'75^2 + a^2$$

$$4 = 0'56 + a^2$$

$$4 - 0'56 = a^2$$

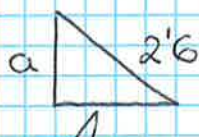
$$3'44 = a^2$$

$$a = \sqrt{3'44} = 1'85$$

38-

$$P = 2 \cdot 8 = 16 \text{ cm}$$

$$A = \frac{16 \cdot 2'40}{2} = 19'2 \text{ cm}^2$$



$$2'6^2 = 1^2 + a^2$$

$$6'76 = 1 + a^2$$

$$6'76 - 1 = a^2$$

$$5'76 = a^2$$

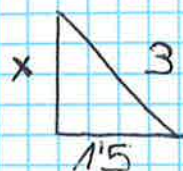
$$a = \sqrt{5'76} = 2'40 \checkmark$$

39-

$$P = 3 \cdot 5 = 15 \text{ cm} \quad A = 15'48 \text{ cm}^2$$

$$a = 15'48 : 15 \times 2 = 2'06 \text{ cm, mide Ea apotema} \checkmark$$

40-



$$P = 3 \cdot 6 = 18 \text{ cm}$$

$$A = \frac{18 \cdot 2'6}{2} = 23'4 \text{ cm}^2$$

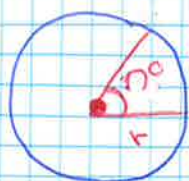
$$3^2 = 1'5^2 + x^2$$

$$9 = 2'25 + x^2$$

$$9 - 2'25 = x^2$$

$$6'75 = x^2$$

$$x = \sqrt{6'75} = 2'6$$



$$A = \frac{\pi \cdot r^2 \cdot n^\circ}{360^\circ}$$

42-

Radio

Área

50 cm

$$A = \pi \cdot 50^2 = 7853'98 \text{ cm}^2$$

7 Km

$$A = \pi \cdot 7^2 = 153'94 \text{ km}^2$$

0'25 m

$$A = \pi \cdot 0'25^2 = 0'19 \text{ m}^2$$

43-

a)

$$A = \frac{\pi \cdot 5^2 \cdot 48}{360} = 10'47 \text{ cm}^2$$

b)

$$A \text{ círculo grande} - A \text{ círculo pequeño} = \pi \cdot 3^2 - \pi \cdot 2^2 = 15'71 \text{ cm}^2$$

44-

$$A = \frac{\pi \cdot 2^2 \cdot 12}{360} = 0'42 \text{ dm}^2$$

45-

$$A = \pi \cdot 8^2 - \pi \cdot 6^2 = 87'96 \text{ mm}^2$$

46-

a)

$$A = \frac{\pi \cdot 5^2 \cdot 54}{360} = 11'78 \text{ cm}^2$$

$$A = 3 \cdot 11'78 = 35'34 \text{ cm}^2$$

b)

$$A = \frac{\pi \cdot 5^2 \cdot 35}{360} - \frac{\pi \cdot 2^2 \cdot 35}{360} =$$

$$6'41 \text{ cm}^2$$

47-

$$A \text{ fuente} = \pi \cdot 2^2 = 12'57 \text{ cm}^2$$

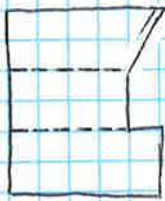
$$A \text{ corona} = \pi (3^2 - 2^2) = 15'71 \text{ m}^2$$

$$A \text{ flores rojas} = 15'71 \cdot 4 = 62'84 \text{ cm}^2$$

1/6/22

48-

a)



$$\frac{(16+11) \cdot 6}{2} = 81$$

$$6 \cdot 11 = 66$$

$$16 \cdot 8 = 128$$

$$A = 81 + 66 + 128 = 275 \text{ cm}^2$$

e)



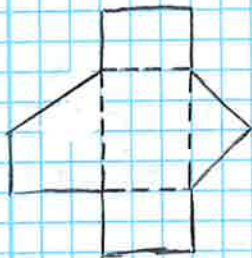
$$8 \cdot 5 = 40$$

$$\frac{6 \cdot 5}{2} = 15$$

$$11 \cdot 20 = 220$$

$$A = 220 + 40 + 15 = 275 \text{ cm}^2$$

49-



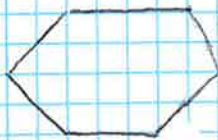
$$A = \frac{(2+1) \cdot 2}{2} = 3 \text{ cm}^2$$

$$A = 2 \cdot 4 = 8 \text{ cm}^2$$

$$A = \frac{2 \cdot 1}{2} = 1$$

$$A = 3 + 8 + 1 = 12 \text{ cm}^2$$

50-



$$A = \frac{4 \cdot 1}{2} = 2 \text{ cm}^2$$

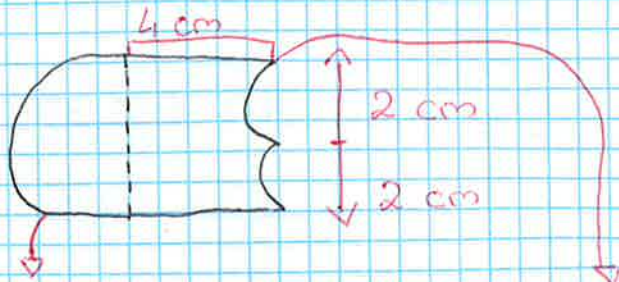
$$A = 4^2 = 16 \text{ cm}^2$$

$$A = \frac{4 \cdot 2}{2} = 4 \text{ cm}^2$$

$$A = 2 + 16 + 4 = 22$$

$$P = 18.2 \text{ cm}$$

51-



$$A = \frac{\pi \cdot 2^2}{2} = 6.28 \text{ cm}^2$$

$$A = \frac{\pi \cdot 2^2}{4} = 3.14 \text{ cm}^2$$

$$A = 6.28 + 16 - 3.14 = 19.14 \text{ cm}^2$$

c)

$$\text{ACOLOREADA} = \text{ACUADRADO} - \text{ACÍRCULO} = 6^2 - \pi \cdot 2^2 = 23'43 \text{ cm}^2$$

d)

$$A = \pi \cdot (R^2 - r^2) = 3'14 \cdot (4^2 - 2^2) = 27'70 \text{ cm}^2$$

e)

$$\text{ACÍRCULO} = \pi \cdot r^2 = \pi \cdot 4^2 = 50'26 \text{ cm}^2$$

$$\text{ARECTÁNGULO} = C \cdot B = 3 \cdot 1 = 3 \text{ cm}^2$$

$$A_{\text{TOTAL}} = 47'27$$

f)

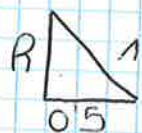
$$P = 8 \cdot 5 = 40$$

$$\text{APENTÁGONO} = \frac{40 \cdot 4'2}{2} = 84$$

$$\text{ACÍRCULO} = \pi \cdot 4'2 = 55'42$$

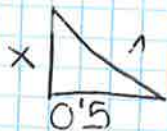
$$A_{\text{TOTAL}} = 84 - 55'42 = 28'58 \text{ cm}^2$$

g)



$$1^2 = 0'5^2 + x^2$$

$$R = \sqrt{0'75} = 0'87$$



$$1^2 = x^2 + 0'5^2$$

$$x = 0'87$$

$$A = \frac{1 \cdot 0'87}{2} = 0'43$$

$$0'43 \cdot 3 = 1'29$$

$A_{\text{TRIÁNGULO}} - A_{\text{TRIÁNGULO PEQUEÑOS}}$

$$\frac{3 \cdot 2'6}{2} - 3 \cdot \frac{1 \cdot 0'87}{2} = 2'61 \text{ cm}^2$$

## FICHA MATEMÁTICAS

a)

$$-A = 3 \cdot 1'5 = 4'5 \text{ cm}^2$$

$$-P = 3 \cdot 2 + 1'5 \cdot 2 = 9 \text{ cm}$$

c)

$$-A = \frac{4 \cdot 2}{2} = 4 \text{ cm}^2$$

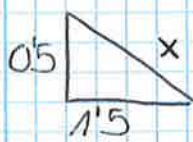
d)

$$-A = 4 \cdot 1 = 4 \text{ cm}^2$$

e)

$$-P = 1'58 \cdot 4 = 6'32 \text{ cm}$$

$$-A = \frac{3 \cdot 1}{2} = 1'5 \text{ cm}^2$$



$$x^2 = 0'5^2 + 1'5^2$$

$$x^2 = 0'25 + 2'25$$

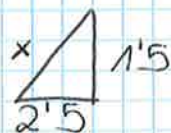
$$x^2 = 2'5$$

$$x = \sqrt{2'5} = 1'58$$

b)

$$-A = \frac{(3+2) \cdot 1'5}{2} = 3'75 \text{ cm}^2 \checkmark$$

$$-P = 3 + 2 + 1'5 + 2'92 = 9'42$$



$$x^2 = 1'5^2 + 2'5^2$$

$$x^2 = 2'25 + 6'25$$

$$x^2 = 8'5$$

$$x = \sqrt{8'5} = 2'92$$

f)

$$-A = \pi \cdot 2'5^2 = 19'63 \text{ cm}^2$$

$$-P = 2 \cdot \pi \cdot 2'5 = 15'71 \text{ cm}^2$$

2-

a)

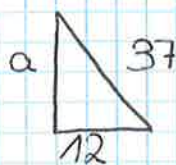
$$-P = 4 \cdot 6 = 24 \text{ cm}$$

$$-A = \frac{3'5 \cdot 24}{2} = 42 \text{ cm}^2$$

c)

$$-P = 37 + 12 + 35 = 84 \text{ cm}$$

$$-A = \frac{35 \cdot 12}{2} = 210 \text{ cm}^2$$



$$37^2 = 12^2 + a^2$$

$$1369 = 144 + a^2$$

$$1369 - 144 = a^2$$

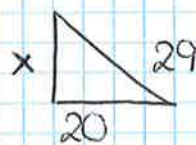
$$1225 = a^2$$

$$a = \sqrt{1225} = 35$$

b)

$$-P = 29 \cdot 4 = 116 \text{ cm}$$

$$-A = \frac{40 \cdot 21}{2} = 420 \text{ cm}^2$$



$$29^2 = 20^2 + x^2$$

$$841 = 400 + x^2$$

$$841 - 400 = x^2$$

$$441 = x^2$$

$$x = \sqrt{441} = 21$$

d)

$$-A = \frac{42 \cdot 5'8}{2} = 121'8 \text{ cm}^2$$

$$-P = 3'5 \cdot 12 = 42 \text{ cm}$$



3-

a)

- Área cuadrada - Área triángulo =  $5^2 - \frac{5 \cdot 5}{2} = 12'5 \text{ cm}^2$

b)

- Área círculo - Área cuadrado =  $\pi \cdot 7^2 - 99^2 = 98'01 \text{ cm}^2$

c)

- Área cuadrado - Área triángulo =  $6^2 - \frac{6 \cdot 3}{2} = 27 \text{ cm}^2$

d)

- Área círculo - Área hexágono =  $\pi \cdot 8^2 - \frac{48 \cdot 6'9}{2} = 35'46 \text{ cm}^2$

4-

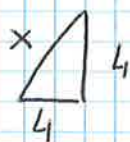
a)

-  $P = 4 + 5 + 5 + 4 + 5'66 = 23'66$

-  $A = 20 + 8 = 28 \text{ cm}^2$

\* Rectángulo =  $\frac{4 \cdot 4}{2} = 8 \text{ cm}^2$

\* Romboide =  $5 \cdot 4 = 20 \text{ cm}^2$



$$x^2 = 4^2 + 4^2$$

$$x^2 = 16 + 16$$

$$x^2 = 32$$

$$x = \sqrt{32} = 5'66$$

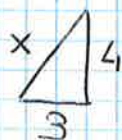
b)

-  $P = 2 \cdot 5 + 2 \cdot 1'5 + 2 \cdot 4'27 + 6 = 27'54 \text{ cm}$

-  $A = 12 + 18 = 30 \text{ cm}^2$

\* Triángulo =  $\frac{6 \cdot 4}{2} = 12 \text{ cm}^2$

\* Trapecio =  $\frac{(6+3) \cdot 4}{2} = 18 \text{ cm}$



$$x^2 = 4^2 + 3^2$$

$$x = 5$$



$$y^2 = 4^2 + 1'5^2$$

$$y = 4'27$$

c)

$$-P = 5 + 5 + 10 + 2 \cdot 5 + 3 \cdot 4 = 42 \text{ cm}$$

$$-A = 20 + 3 \cdot 6 = 38 \text{ cm}^2$$

5-

a)

$$A = \text{ASECTOR CIRCULAR} - \text{A TRIÁNGULO} = \frac{\pi \cdot 6^2 \cdot 90}{360} - \frac{6 \cdot 6}{2} = 10'27$$

b)

$$A = \text{ASECTOR CIRCULAR} - \text{ASECTOR CIRCULAR} =$$

$$\frac{\pi \cdot 9^2 \cdot 120}{360} - \frac{\pi \cdot 6^2 \cdot 120}{360} = 47'12 \text{ cm}^2$$

c)

$$A = \text{ASEMICÍRCULO MED.} + \text{ASEMICÍRCULO GRANDE} -$$

$$\text{ASEMICÍRCULO PEQUEÑO} = \frac{\pi \cdot 2^2}{2} + \frac{\pi \cdot 3^2}{2} - \frac{\pi \cdot 1^2}{2} = 18'85$$

d)

$$A = \text{ARECTÁNGULO} - \text{ASECTOR CIRCULAR} = 6 \cdot 8 - \frac{\pi \cdot 6^2 \cdot 45}{360} = 33'86$$

6-

$$A = \frac{\pi \cdot 6^2}{2} = 56'55 \text{ cm}^2$$

7-

a)

$$A = 24 + 2 + 6 = 32 \text{ cm}^2$$

$$\text{A TRIÁNGULO} = \frac{4 \cdot 3}{2} = 6$$

$$\text{A TRIÁNGULO} = \frac{2 \cdot 2}{2} = 2$$

$$\text{ARECTÁNGULO} = 4 \cdot 6 = 24$$

b)

$$\text{ARECTÁNGULO} = 2 \cdot 7 = 14$$

$$\text{ARECTÁNGULO} = 2 \cdot 3 = 6$$

$$\text{A TRIÁNGULO} = \frac{2 \cdot 3}{2} = 3$$

$$\text{A TRIÁNGULO} = \frac{2 \cdot 2}{2} = 2$$

$$A = 14 + 3 + 6 + 2 =$$

8-

a)

$$A = \frac{10 \cdot 20}{2} = 100 \text{ cm}^2$$

$$A = \pi \cdot 10 = 31'4$$

$$A_{\text{FIGURA}} = 100 - 31'4 = 214'16$$

b)

$$A_{\text{CÍRCULO}} = \pi \cdot 5^2 = 78'54 \text{ cm}^2$$

$$A_{\text{RECTÁNGULO}} = 10 \cdot 20 = 200$$

$$A = 200 - 78'54 - 78'54 = 42'92$$

9-

a)

$$A = \pi \cdot 2'5 = 19'63 \text{ cm}^2$$

$$39'27 - 19'63 = 19'63$$

$$\text{Mitad de área} = \frac{\pi R^2}{2} = 39'27$$

b)

$$A = 10 \cdot 8 = 80$$

$$A = 80 - 50'26 = 29'74$$

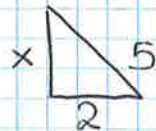
$$A = \pi \cdot 4^2 = 50'26$$

10-

a)

$$A_{\text{CUADRADO}} = 4^2 = 16$$

$$A_{\text{TRIÁNGULO}} = \frac{4 \cdot 4'58}{2} = 9'16$$



$$5^2 = 2^2 + x^2$$

$$25 = 4 + x^2$$

$$25 - 4 = x^2$$

$$21 = x^2$$

$$A_{\text{TOTAL}} = 16 + 9'16 = 25'16 \text{ cm}^2$$

$$x = \sqrt{21} = 4'58$$

b)

$$A_{\text{TRIÁNGULO}} = \frac{2 \cdot 1'73}{2} = 1'73$$



$$2^2 = 1^2 + x^2$$

$$4 = 1 + x^2$$

$$4 - 1 = x^2$$

$$3 = x^2$$

$$A_{\text{RECTÁNGULO}} = 8 \cdot 4 = 32$$

$$A_{\text{FIGURA}} = 32 - 1'73 = 30'27 \text{ cm}^2$$

$$x = \sqrt{3} = 1'73$$