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RISULTATI

Questionario di autovalutazione di Matematica
per le future classi prime
a cura di Clara Coviello

Dopo aver controllato l'esattezza delle tue risposte calcola il punteggio, se hai commesso molti errori in una certa sezione ripassa bene i relativi argomenti.

Svolgi anche gli esercizi dal libro "Math check zero"
Casa editrice SEI codice 9788805074242 Prezzo 7,30 €

La prova è valutata secondo la seguente tabella:

Punti	Valutazione
0 - 39	gravemente insufficiente
40 - 55	insufficiente
56 - 67	sufficiente
68 - 77	soddisfacente
78 - 85	buono
86 - 100	ottimo

Ogni esercizio risolto correttamente vale 2 punti.

Domanda	**Risposta**	Domanda	**Risposta**	Domanda	**Risposta**
1	90	18	36%, 28%,27%	35	si
2	4	19	(*)	36	(*)
3	14/33	20	60,138,102	37	38, 53
4	6	21	442 €	38	(*)
5	1	22	690	39	4; $\sqrt{52}$
6	1/3	23	5	40	(*)
7	-1	24	540°,360°	41	(*)
8	1/2	25	10°	42	(*)
9	4 (*)	26	(*)	43	15,10,6 (*)
10	12 (*)	27	129°	44	(*)
11	3, 240	28	80°	45	$y = -\frac{3}{2}x$
12	4 (*)	29	36°,36°, 106°	46	$y = \frac{6}{x}$
13	10 dicembre	30	(*)	47	(*)
14	(*)	31	(*)	48	2,6; 3; 3
15	(*)	32	(*)	49	(*)
16	(*)	33	10,2; 10cm	50	5; 9; 7
17	10 m	34	47,40 m		

(*) la risposta dettagliata la trovi di seguito:

9)

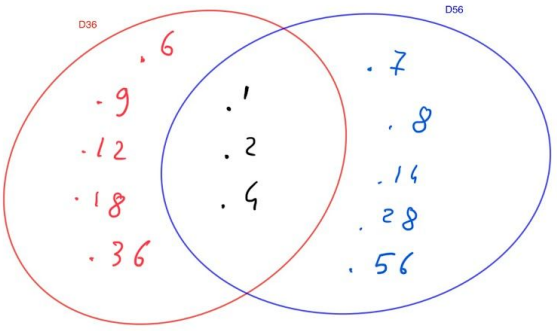
9) Scrivi i divisori di 36 e 56,

D36={1,2,4,6,9,12,18,36}

D56={1,2,4,7,8,14,28,56}

Inserisci i divisori nei due insiemi qui a fianco.

Qual è il M.C.D.? 4



10)

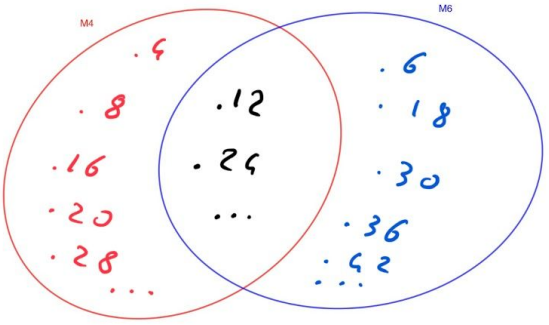
10) Scrivi i primi 7 multipli di 4 e 6,

M4={4,8,12,16,20,24,28,...}

M6={6,12,18,24,30,36,42,...}

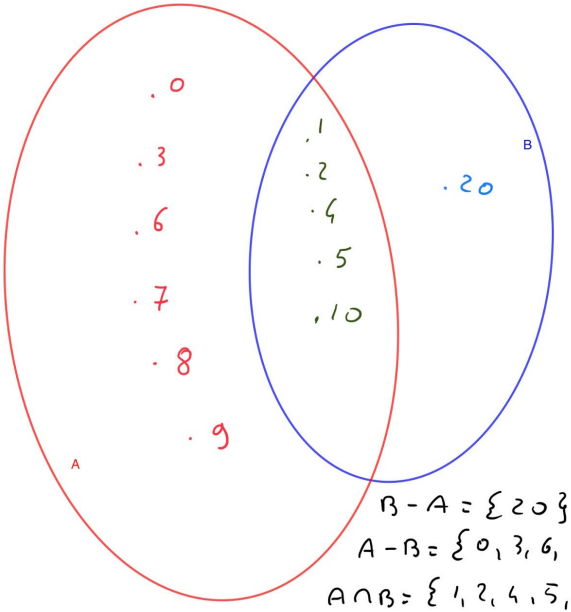
Inserisci i multipli nei due insiemi qui a fianco.

Qual è il m.c.m.? 12



12) 4 mazzi con 5 tulipani rosa e 9 tulipani gialli

14)



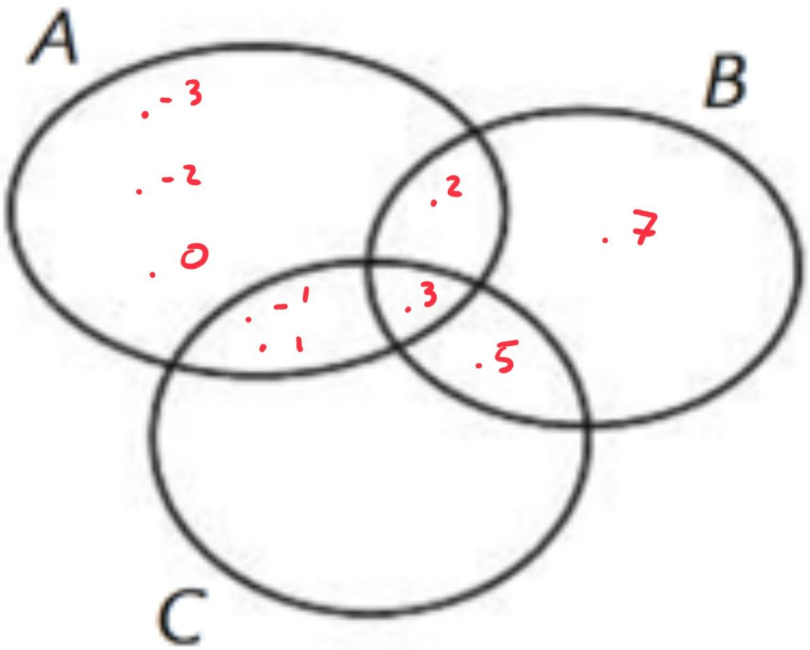
B − A = {20}

A − B = {0, 3, 6, 7, 8, 9}

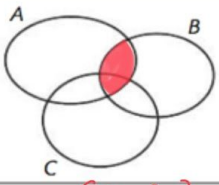
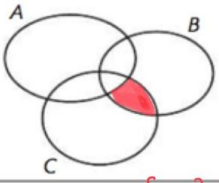
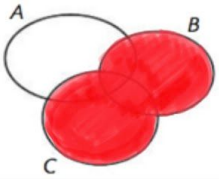
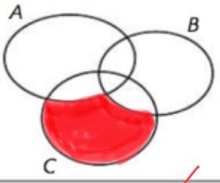
A ∩ B = {1, 2, 4, 5, 10}

A ∪ B = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20}

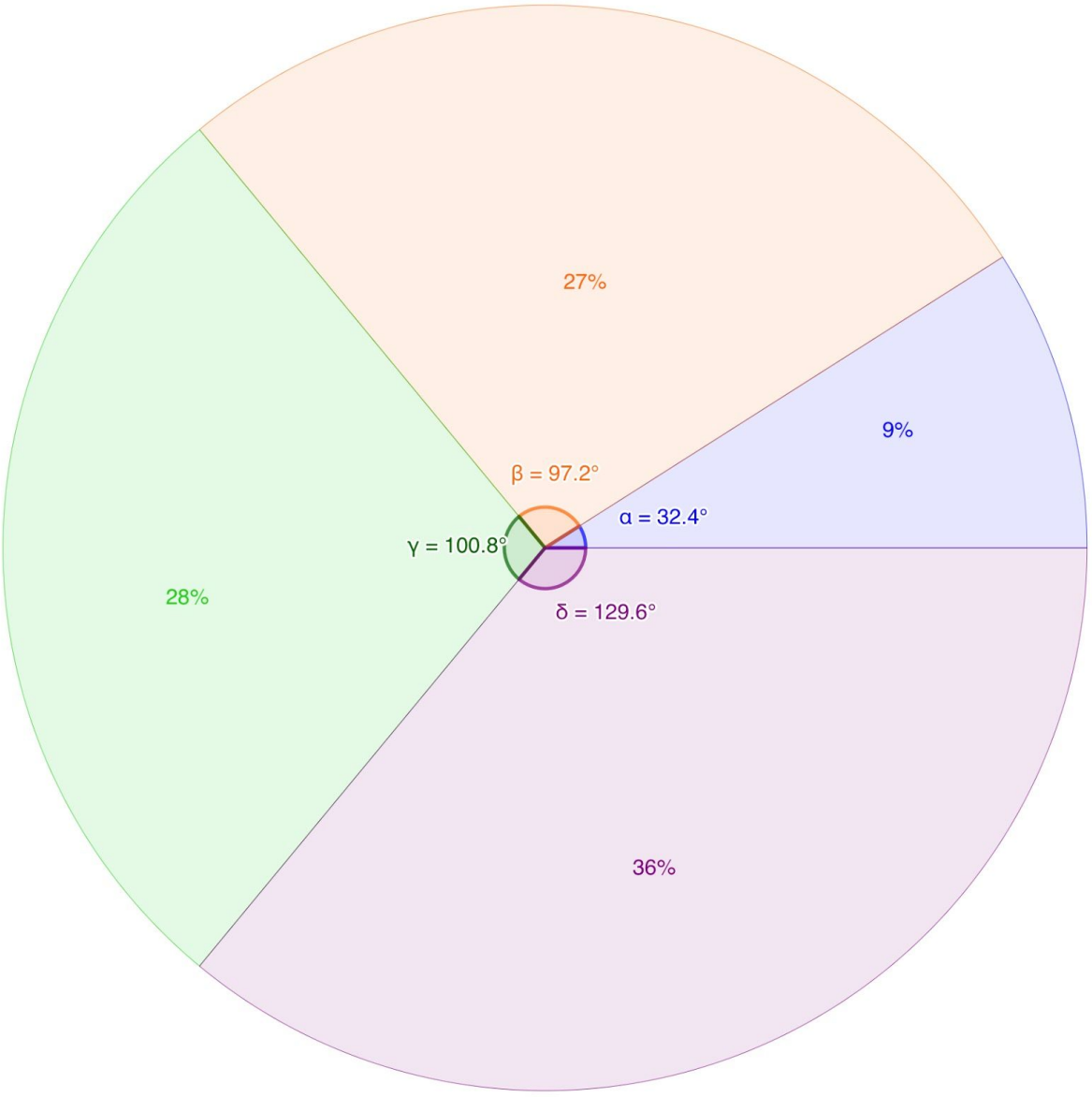
15)



16)

$A \cap B$	$(B \cap C) - A$	$B \cup C$	$C - (A \cup B)$
			
$A \cap B = \{2, 3\}$	$(B \cap C) - A = \{5\}$	$B \cup C = \{-1, 1, 2, 3, 5, 7\}$	$C - (A \cup B) = \emptyset$

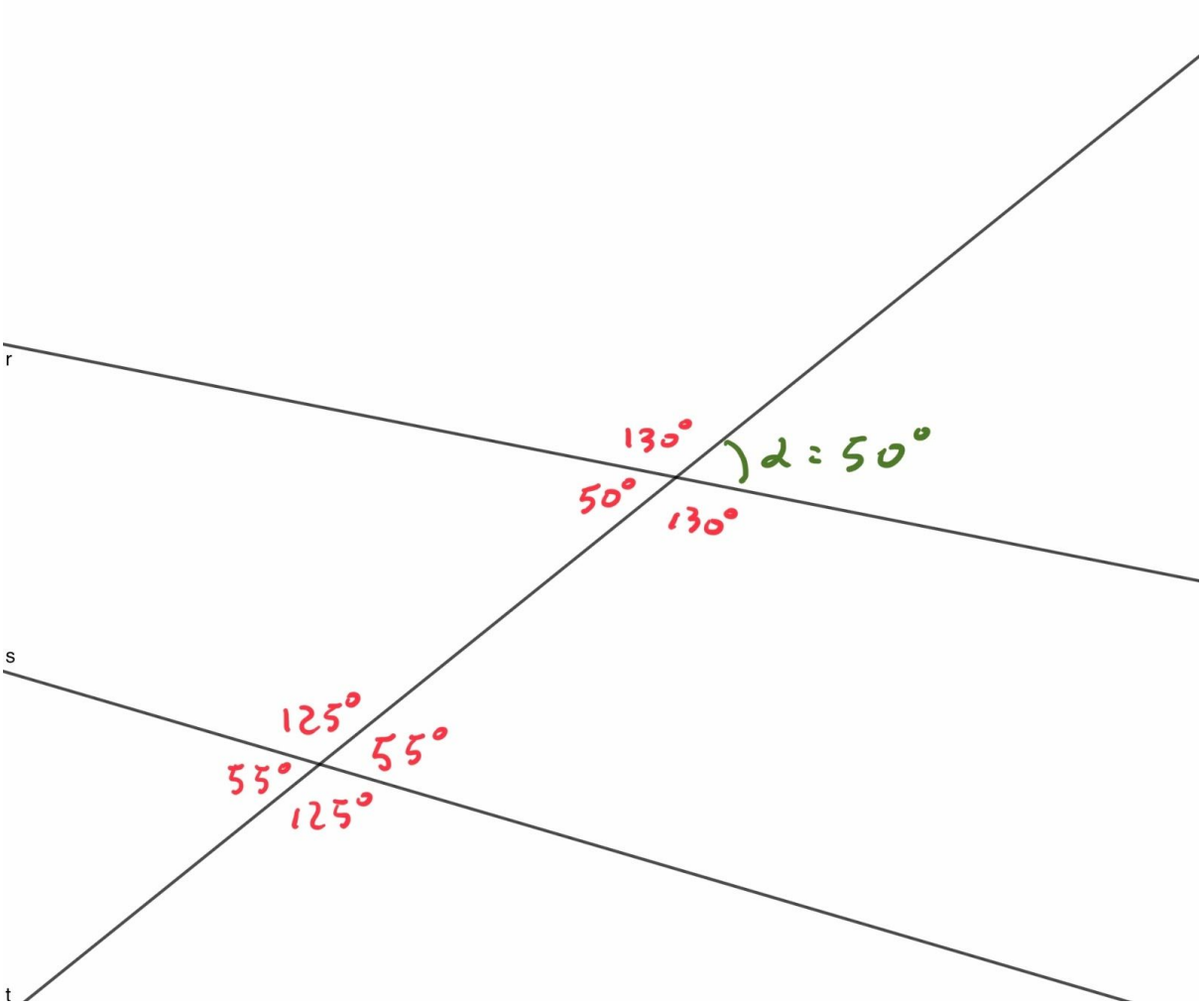
18)



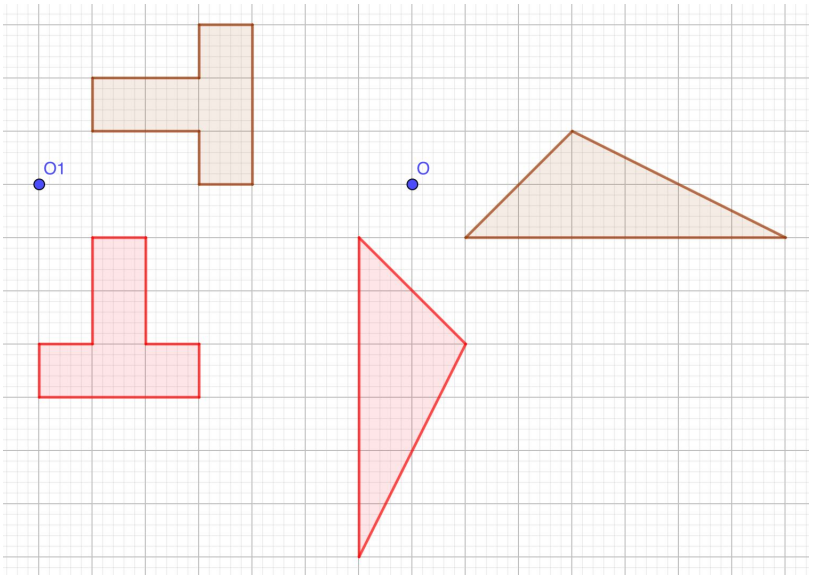
19)

- 30 noci;
- 1,5 litro di alcol al 95% per uso alimentare;
- 3 noce moscata;
- 10 chiodi di garofano;
- 5 semi di anice stellato;
- 1,5 di stecca di cannella;
- 3 bastoncino di vaniglia;
- 1 buccia di un grande limone;
- 750 ml di acqua;
- 500 g di zucchero.

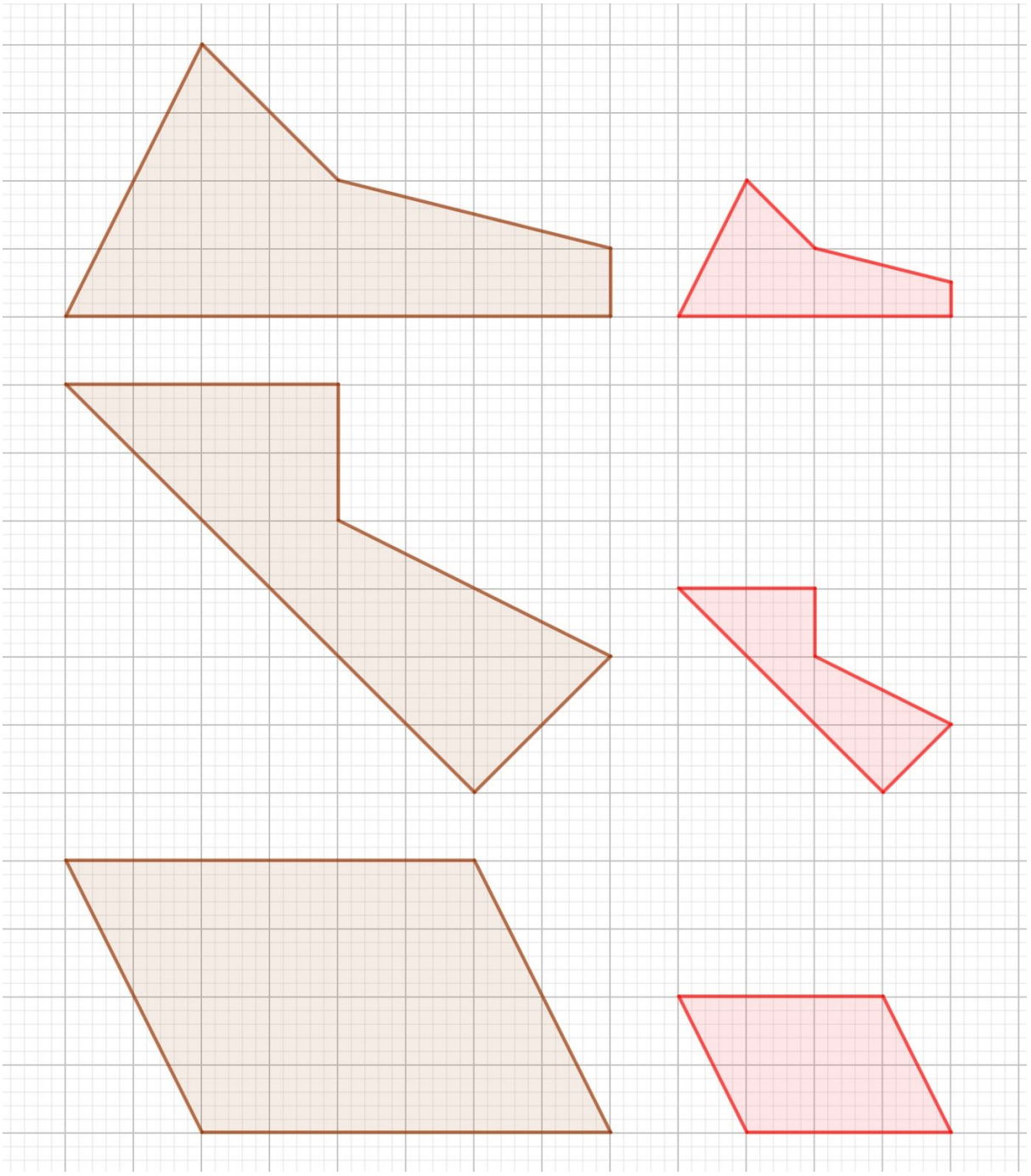
26)



30)
Si definisce baricentro di un triangolo il punto d'intersezione delle sue mediane.
31)

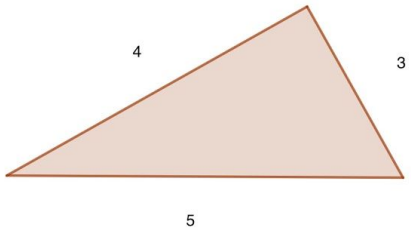


32)



36)
B(3,-2); C(6,-2); D(6,-4); E(-4,-4); F(-4,1); G(-1,1); H(-1,4).

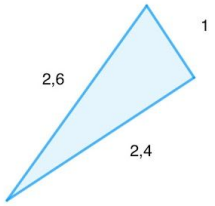
38)



$3^2 + 4^2 = 5^2$

$9 + 16 = 25$

$25 = 25$ c.v.d.

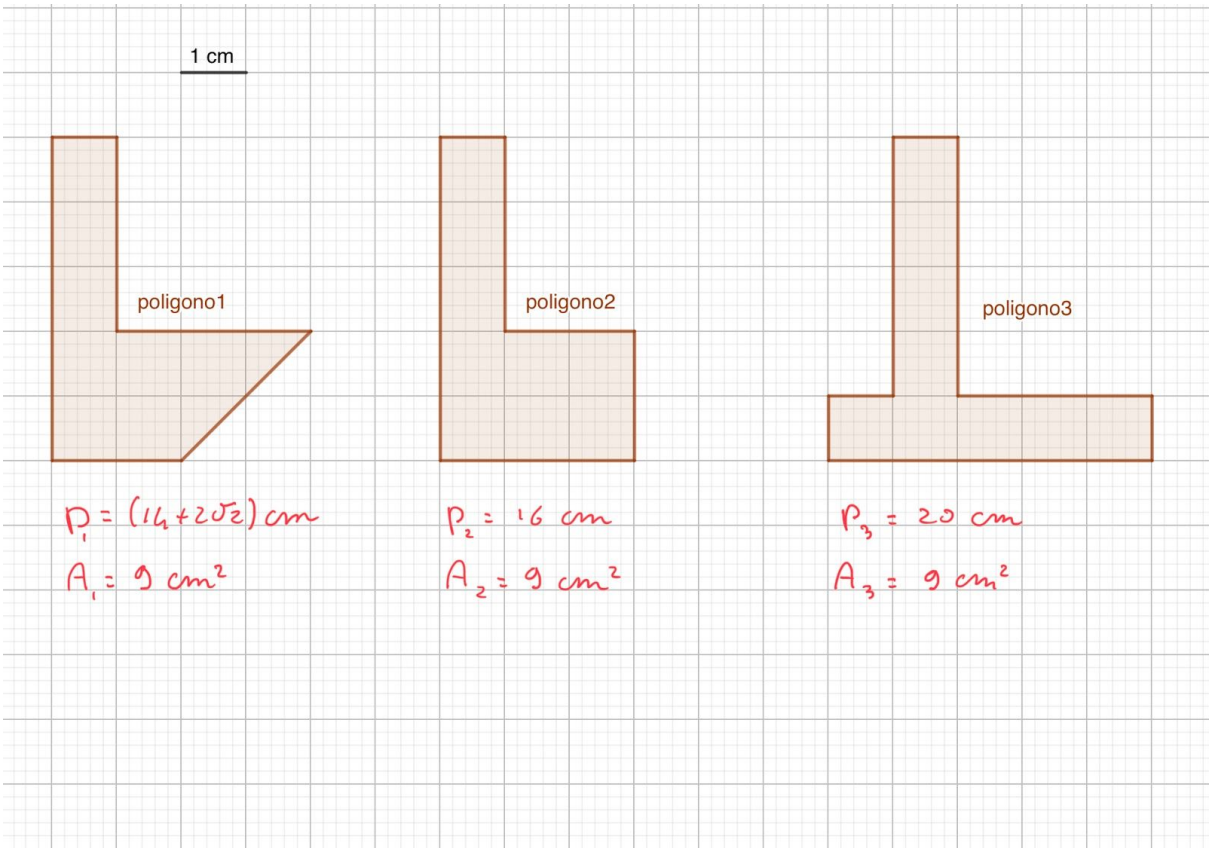


$1^2 + 2{,}4^2 = 2{,}6^2$

$1^2 + 5{,}76 = 6{,}76$

$6{,}76 = 6{,}76$ c.v.d.

40)



$P_1 = (14 + 2\sqrt{2})$ cm

$A_1 = 9$ cm^2

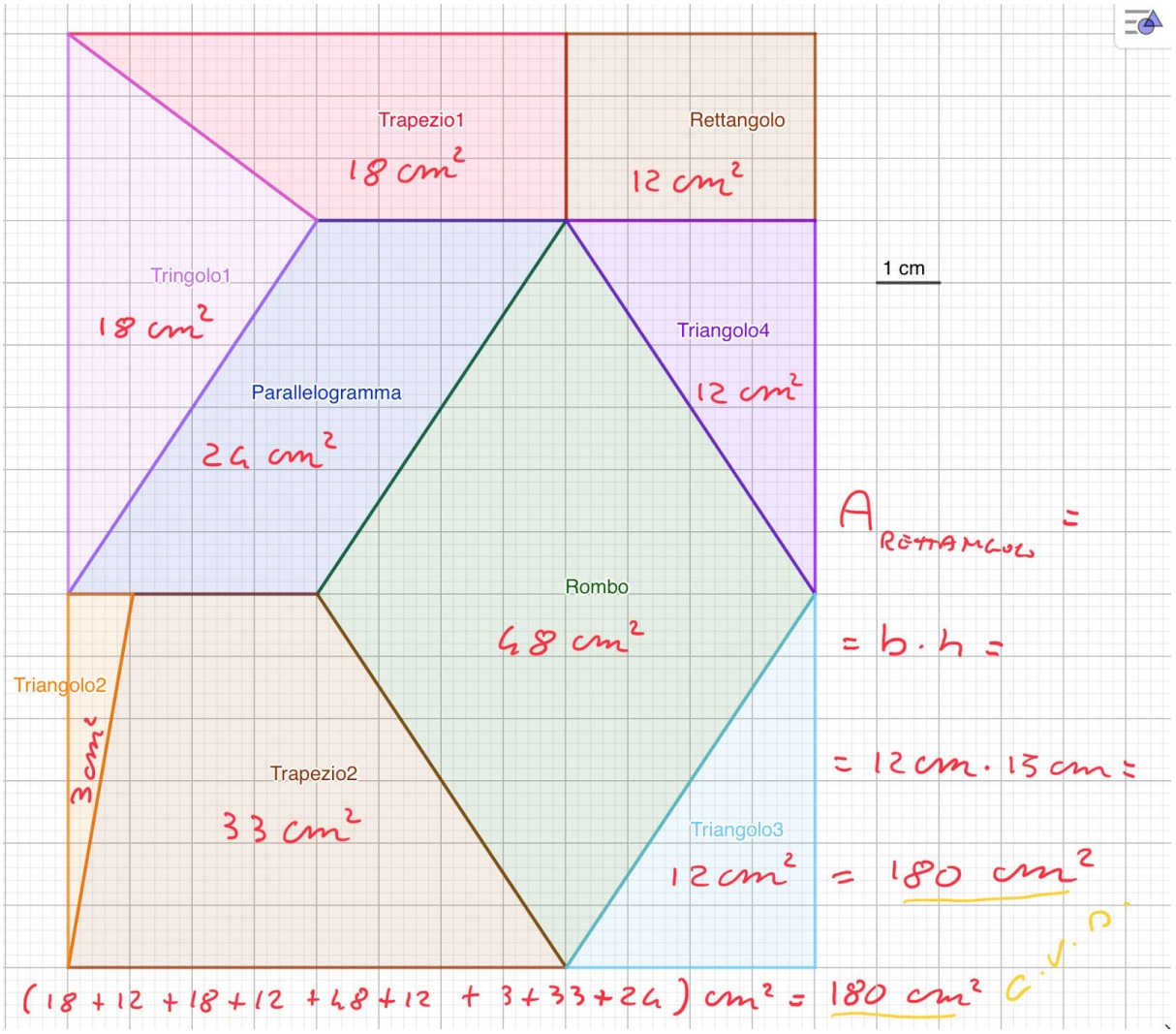
$P_2 = 16$ cm

$A_2 = 9$ cm^2

$P_3 = 20$ cm

$A_3 = 9$ cm^2

41)



$A_{RETTANGOLO} =$

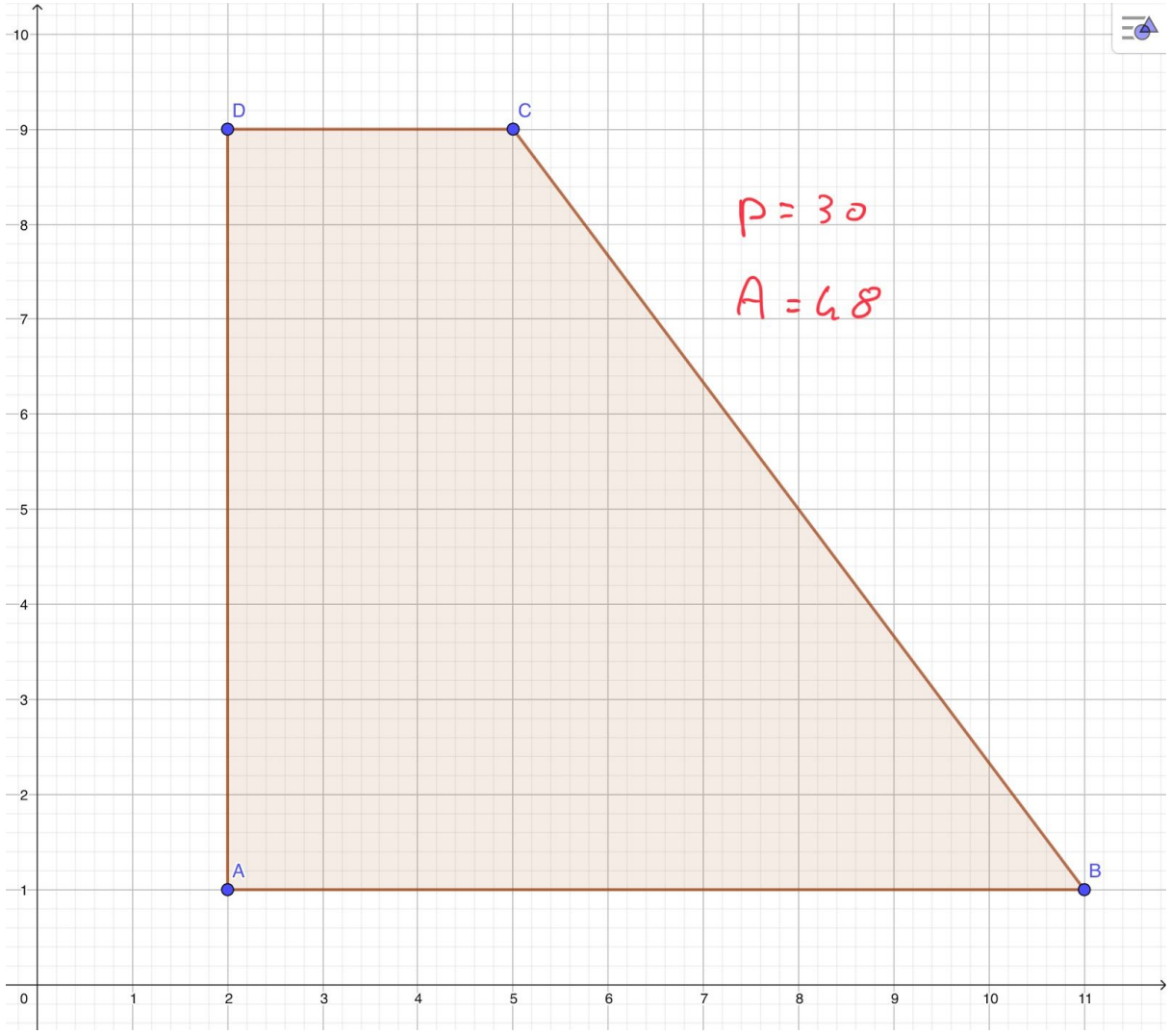
$= b \cdot h =$

$= 12\,cm \cdot 15\,cm =$

$= 180\,cm^2$

$(18 + 12 + 18 + 12 + 48 + 12 + 3 + 33 + 24)\,cm^2 = 180\,cm^2$

42)



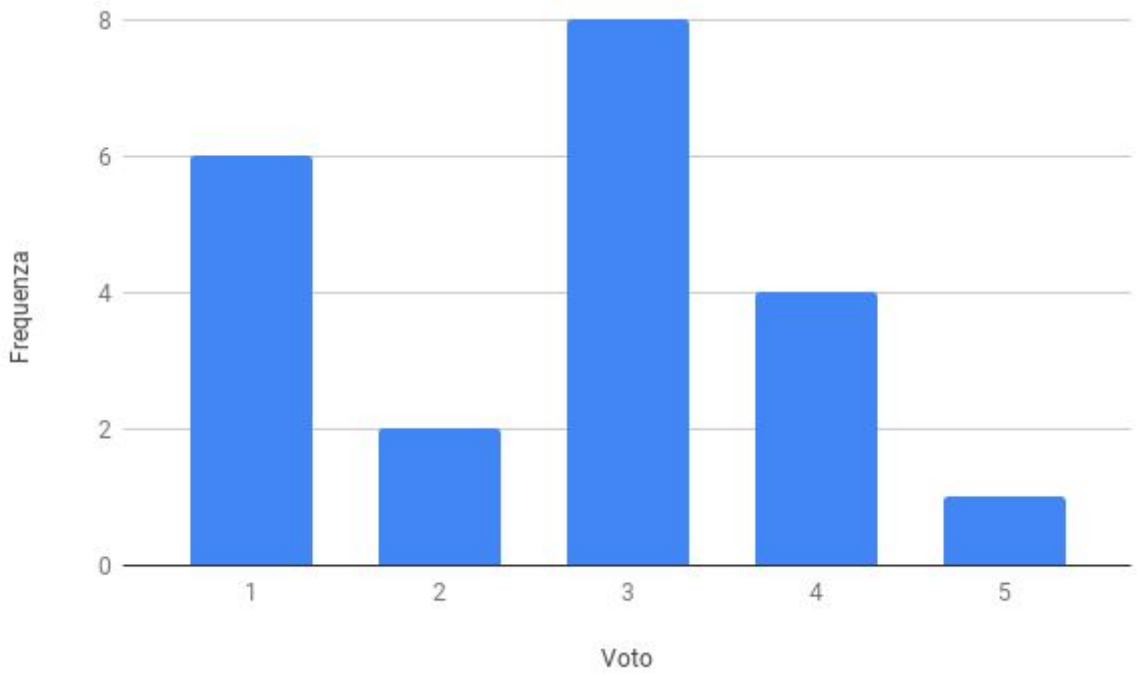
43)

l (m)	costo cotone (€)	costo lino (€)	costo seta (€)
0,5	3	5	7,5
1	6	10	15
1,5	9	15	22,5
2	12	20	30
2,5	15	25	37,5
3	18	30	45

44)
proporzionalità inversa

base (cm)	altezza (cm)	area cm^2
16	1	16
8	2	16
4	4	16
2	8	16
1	16	16

47)
n=22; media=18,36%; mediana=18,5; moda=19; 22,72%
48)



49)
79,83 m ; 105 m ; 26,6%

50)

	1	2	3	4	5	6	dado B
1	2	3	4	5	6	7	
2	3	4	5	6	7	8	
3	4	5	6	7	8	9	
4	5	6	7	8	9	10	
5	6	7	8	9	10	11	
6	7	8	9	10	11	12	
dado A							