

**LE SEGUENTI SLIDES SONO
TRATTE DALLE ANIMAZIONI
DELLA PRESENTAZIONE.**

**Alcuni di questi materiali
si possono trovare sul sito**

www.ritabartole.it

rita.bartole@fastwebnet.it

La tabella della tombola per sommare e sottrarre

ADDIZIONE E SOTTRAZIONE DI DECINE

$$13 + 40 = 53$$

$$67 - 30 = 37$$

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

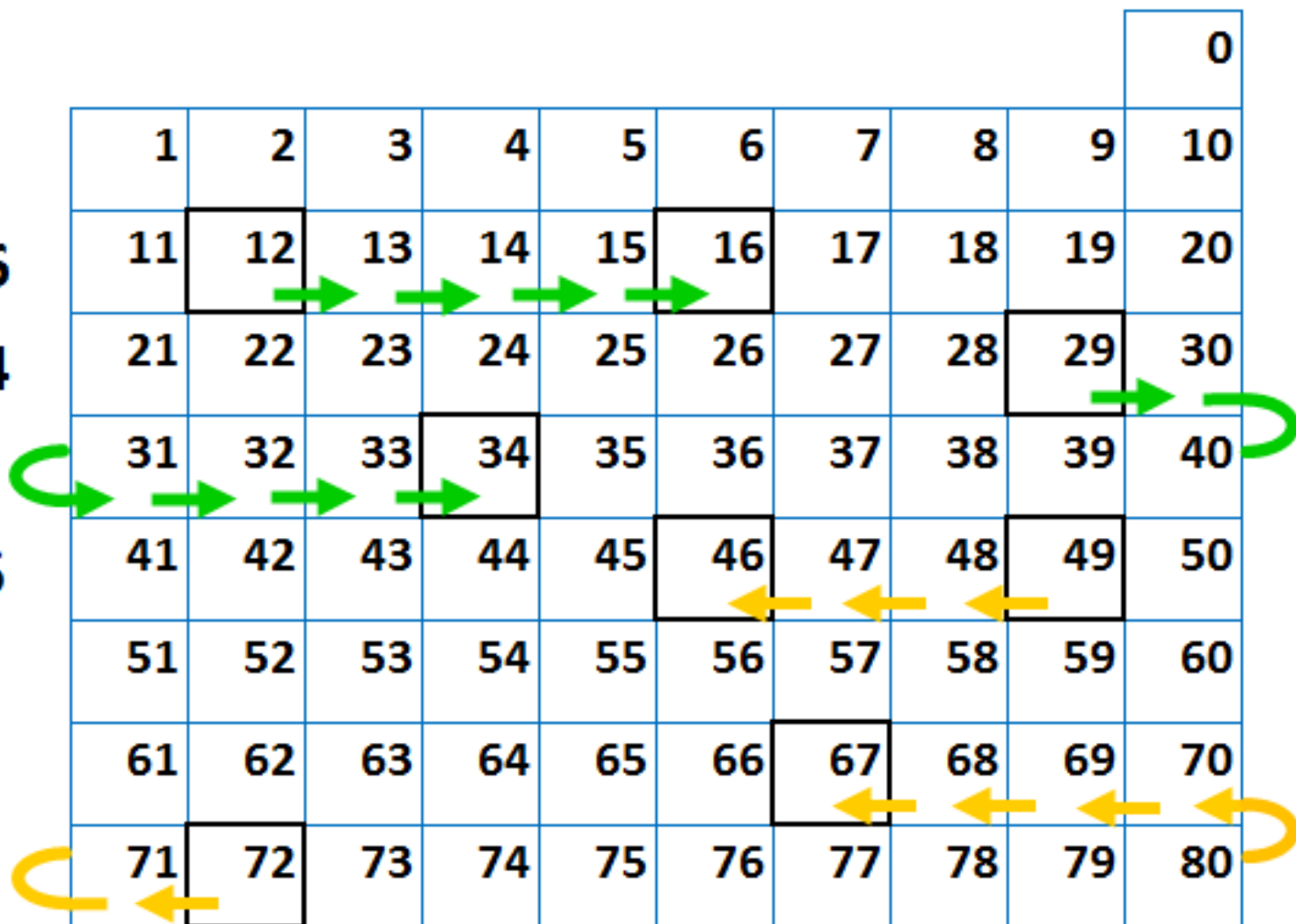
ADDIZIONE E SOTTRAZIONE DI UNITA'

$$12 + 4 = 16$$

$$29 + 5 = 34$$

$$49 - 3 = 46$$

$$72 - 5 = 67$$



ADDIZIONE E SOTTRAZIONE

$$12 + 34 = 46$$

$$79 - 54 = 25$$

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

ADDIZIONE E SOTTRAZIONE: STRATEGIE

$$14 + 28 =$$

$$14 + 30 - 2 = 42$$

$$67 - 39 =$$

$$67 - 40 + 1 = 28$$

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

la RiTabella

I colori che contano

www.laritabella.com

Rita e Marco

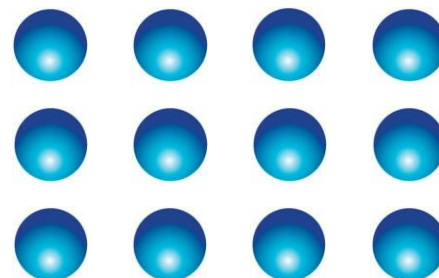
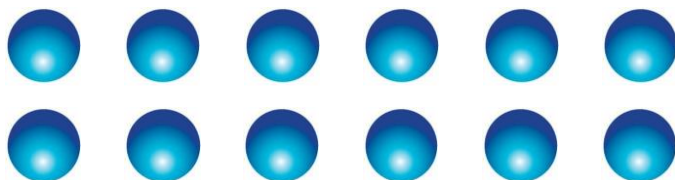
la RiTabella

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
27	28	29	30	37	38	39	40	47	48
49	50	57	58	59	60	67	68	69	70
77	78	79	80	87	88	89	90	97	98
99	100	107	108	109	110	117	118	119	120
127	128	129	130	137	138	139	140	147	148
149	150	11	13	17	19				

La RiTabella, con le sue regole, può considerarsi un sistema di numerazione che facilita le operazioni di moltiplicazione e divisione tra numeri interi e soprattutto consente di capire in modo intuitivo i concetti di MCD e mcmm rendendo più semplice il calcolo frazionario.

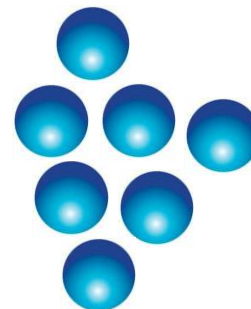
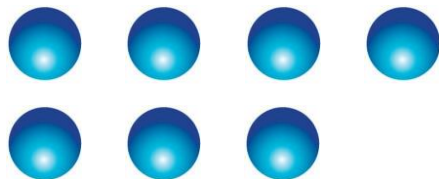
Per rappresentare i numeri naturali, RiTabella utilizza colori e numeri basandosi sull'unicità della scomposizione di un numero in fattori primi.

Per trovare tutti i fattori (o divisori) di un numero,
eseguimo degli schieramenti con le palline.
Proviamo con il numero 12:



DIVISORI DEL 12 : 2 - 6 - 3 - 4 - 1 - 12

Proviamo ora con il numero 7:



DIVISORI DEL 7 : 1 - 7

NUMERI PRIMI

“ LINEARI ”

7



2



3



5

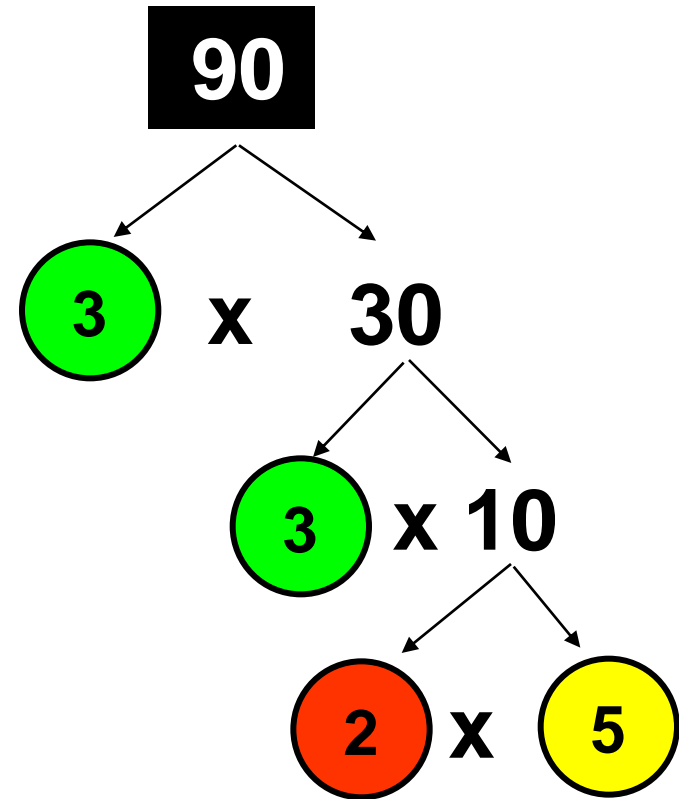
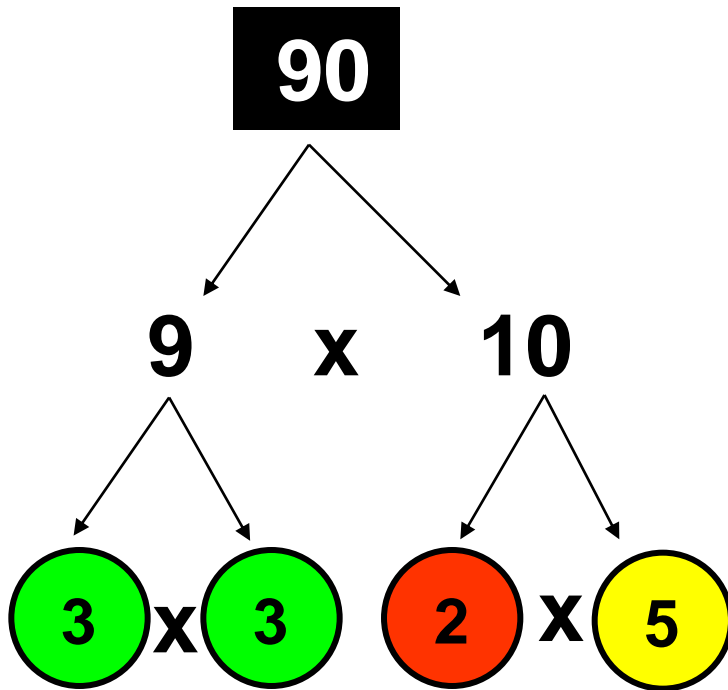


11

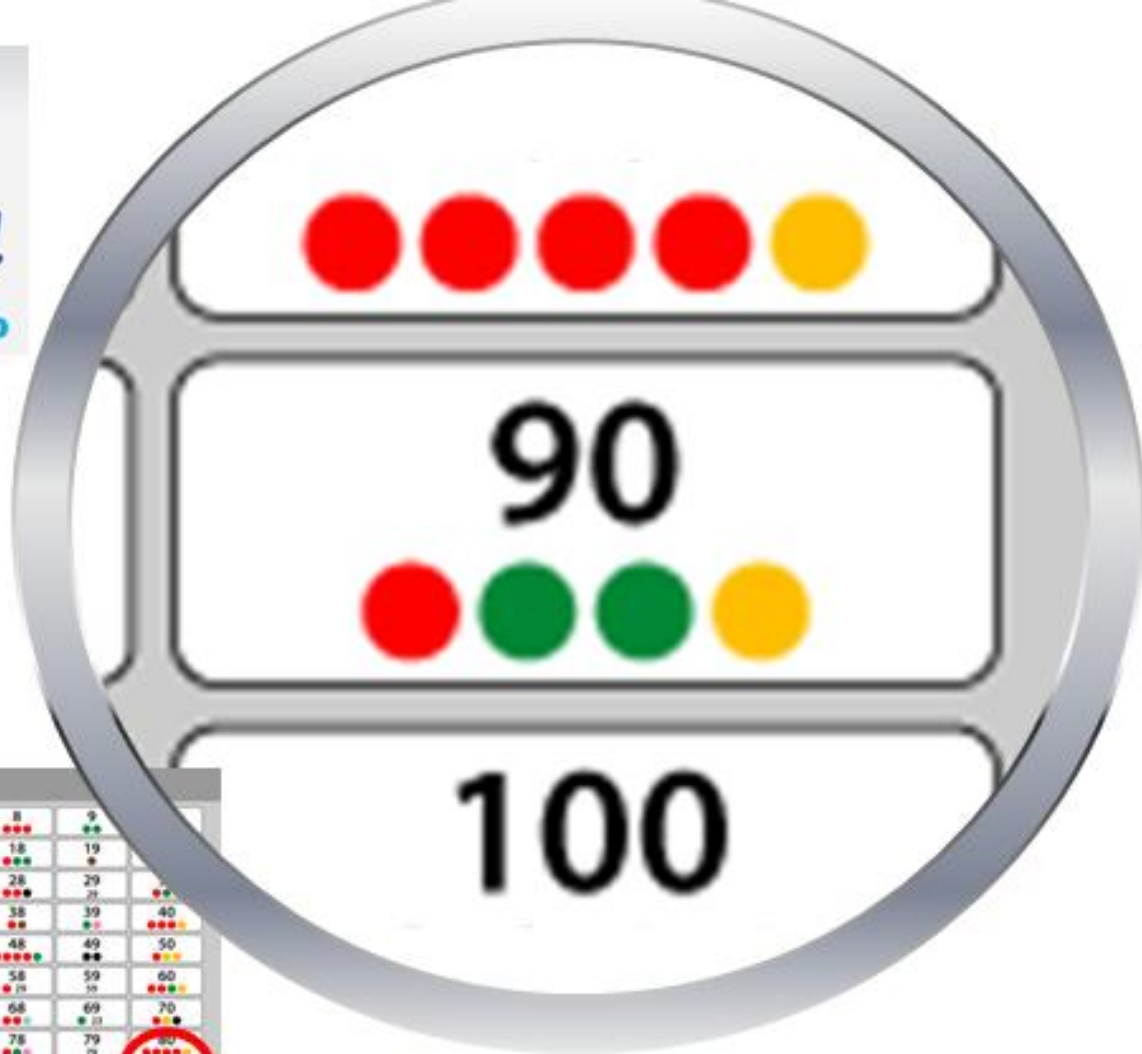


2	3	5	7	11	13	17	19

LA FATTORIZZAZIONE E' UNICA



$$90 = 2 \times 3 \times 3 \times 5$$



la RiTabella

1	2	3	4	5	6	7	8	9
11	12	13	14	15	16	17	18	19
21	22	23	24	25	26	27	28	29
31	32	33	34	35	36	37	38	39
41	42	43	44	45	46	47	48	49
51	52	53	54	55	56	57	58	59
61	62	63	64	65	66	67	68	69
71	72	73	74	75	76	77	78	79
81	82	83	84	85	86	87	88	89
91	92	93	94	95	96	97	98	99
101	102	103	104	105	106	107	108	109
111	112	113	114	115	116	117	118	119
121	122	123	124	125	126	127	128	129
131	132	133	134	135	136	137	138	139
141	142	143	144	145	146	147	148	149
151	152	153	154	155	156	157	158	159
161	162	163	164	165	166	167	168	169
171	172	173	174	175	176	177	178	179
181	182	183	184	185	186	187	188	189
191	192	193	194	195	196	197	198	199
201	202	203	204	205	206	207	208	209
211	212	213	214	215	216	217	218	219
221	222	223	224	225	226	227	228	229
231	232	233	234	235	236	237	238	239
241	242	243	244	245	246	247	248	249
251	252	253	254	255	256	257	258	259
261	262	263	264	265	266	267	268	269
271	272	273	274	275	276	277	278	279
281	282	283	284	285	286	287	288	289
291	292	293	294	295	296	297	298	299
301	302	303	304	305	306	307	308	309
311	312	313	314	315	316	317	318	319
321	322	323	324	325	326	327	328	329
331	332	333	334	335	336	337	338	339
341	342	343	344	345	346	347	348	349
351	352	353	354	355	356	357	358	359
361	362	363	364	365	366	367	368	369
371	372	373	374	375	376	377	378	379
381	382	383	384	385	386	387	388	389
391	392	393	394	395	396	397	398	399
401	402	403	404	405	406	407	408	409
411	412	413	414	415	416	417	418	419
421	422	423	424	425	426	427	428	429
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441	442	443	444	445	446	447	448	449
451	452	453	454	455	456	457	458	459
461	462	463	464	465	466	467	468	469
471	472	473	474	475	476	477	478	479
481	482	483	484	485	486	487	488	489
491	492	493	494	495	496	497	498	499
501	502	503	504	505	506	507	508	509
511	512	513	514	515	516	517	518	519
521	522	523	524	525	526	527	528	529
531	532	533	534	535	536	537	538	539
541	542	543	544	545	546	547	548	549
551	552	553	554	555	556	557	558	559
561	562	563	564	565	566	567	568	569
571	572	573	574	575	576	577	578	579
581	582	583	584	585	586	587	588	589
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601	602	603	604	605	606	607	608	609
611	612	613	614	615	616	617	618	619
621	622	623	624	625	626	627	628	629
631	632	633	634	635	636	637	638	639
641	642	643	644	645	646	647	648	649
651	652	653	654	655	656	657	658	659
661	662	663	664	665	666	667	668	669
671	672	673	674	675	676	677	678	679
681	682	683	684	685	686	687	688	689
691	692	693	694	695	696	697	698	699
701	702	703	704	705	706	707	708	709
711	712	713	714	715	716	717	718	719
721	722	723	724	725	726	727	728	729
731	732	733	734	735	736	737	738	739
741	742	743	744	745	746	747	748	749
751	752	753	754	755	756	757	758	759
761	762	763	764	765	766	767	768	769
771	772	773	774	775	776	777	778	779
781	782	783	784	785	786	787	788	789
791	792	793	794	795	796	797	798	799
801	802	803	804	805	806	807	808	809
811	812	813	814	815	816	817	818	819
821	822	823	824	825	826	827	828	829
831	832	833	834	835	836	837	838	839
841	842	843	844	845	846	847	848	849
851	852	853	854	855	856	857	858	859
861	862	863	864	865	866	867	868	869
871	872	873	874	875	876	877	878	879
881	882	883	884	885	886	887	888	889
891	892	893	894	895	896	897	898	899
901	902	903	904	905	906	907	908	909
911	912	913	914	915	916	917	918	919
921	922	923	924	925	926	927	928	929
931	932	933	934	935	936	937	938	939
941	942	943	944	945	946	947	948	949
951	952	953	954	955	956	957	958	959
961	962	963	964	965	966	967	968	969
971	972	973	974	975	976	977	978	979
981	982	983	984	985	986	987	988	989
991	992	993	994	995	996	997	998	999
1001	1002	1003	1004	1005	1006	1007	1008	1009
1011	1012	1013	1014	1015	1016	1017	1018	1019
1021	1022	1023	1024	1025	1026	1027	1028	1029
1031	1032	1033	1034	1035	1036	1037	1038	1039
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1051	1052	1053	1054	1055	1056	1057	1058	1059
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1091	1092	1093	1094	1095	1096	1097	1098	1099
1101	1102	1103	1104	1105	1106	1107	1108	1109
1111	1112	1113	1114	1115	1116	1117	1118	1119
1121	1122	1123	1124	1125	1126	1127	1128	1129
1131	1132	1133	1134	1135	1136	1137	1138	1139
1141	1142	1143	1144	1145	1146	1147	1148	1149
1151	1152	1153	1154	1155	1156	1157	1158	1159
1161	1162	1163	1164	1165	1166	1167	1168	1169
1171	1172	1173	1174	1175	1176	1177	1178	1179
1181	1182	1183	1184	1185	1186	1187	1188	1189
1191	1192	1193	1194	1195	1196	1197	1198	1199
1201	1202	1203	1204	1205	1206	1207	1208	1209
1211	1212	1213	1214	1215	1216	1217	1218	1219
1221	1222	1223	1224	1225	1226	1227	1228	1229
1231	1232	1233	1234	1235	1236	1237	1238	1239
1241	1242	1243	1244	1245	1246	1247	1248	1249
1251	1252	1253	1254	1255	1256	1257	1258	1259
1261	1262	1263	1264	1265	1266	1267	1268	1269
1271	1272	1273	1274	1275	1276	1277	1278	1279
1281	1282	1283	1284	1285	1286	1287	1288	1289
1291	1292	1293	1294	1295	1296	1297	1298	1299
1301	1302	1303	1304	1305	1306	1307	1308	1309
1311	1312	1313	1314	1315	1316	1317	1318	1319
1321	1322	1323	1324	1325	1326	1327	1328	1329
1331	1332	1333	1334	1335	1336	1337	1338	1339
1341	1342	1343	1344	1345	1346	1347	1348	1349
1351	1352	1353	1354	1355	1356	1357	1358	1359
1361	1362	1363	1364	1365	1366	1367	1368	1369
1371	1372	1373	1374	1375	1376	1377	1378	1379
1381	1382	1383	1384	1385	1386	1387	1388	1389
1391	1392	1393	1394	1395	1396	1397	1398	1399
1401	1402	1403	1404	1405	1406	1407	1408	1409
1411	1412	1413	1414	1415	1416	1417	1418	1419
1421	1422	1423	1424	1425	1426	1427	1428	1429
1431	1432	1433	1434	1435	1436	1437	1438	1439
1441	1442	1443	1444	1445	1446	1447	1448	1449
1451	1452	1453	1454	1455	1456	1457	1458	1459
1461	1462	1463	1464	1465	1466	1467	1468	1469
1471	1472	1473	1474	1475	1476	1477	1478	1479
1481	1482	1483	1484	1485	1486	1487	1488	1489
1491	1492	1493	1494	1495	1496	1497	1498	1499
1501	1502	1503	1504	1505	1506	1507	1508	1509
1511	1512	1513	1514	1515	1516	1517	1518	1519
1521	1522	1523	1524	1525	1526	1527	1528	1529
1531	1532							

DIVISIONI

la RiTabella

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
1	2	3	4	5	6	7	8	9	10

$$60 = 2 \times 2 \times 3 \times 5$$

$$15 = 3 \times 5$$

60

:

15

= ?

$$\begin{array}{c} \text{2} \\ \text{2} \\ \cancel{\text{3}} \\ \cancel{\text{5}} \end{array} : \begin{array}{c} \cancel{\text{3}} \\ \cancel{\text{5}} \end{array} = 2 \times 2 = 4$$



la RiTabella

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150

Legenda colori

1	2	3	5	7	11	13	17	19
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MCD tra **12** e **18** = **2** **3** = 6



RIDURRE UNA FRAZIONE

la RiTabella

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150

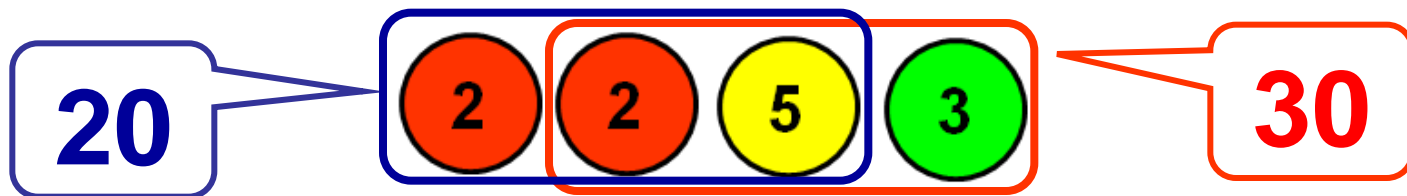
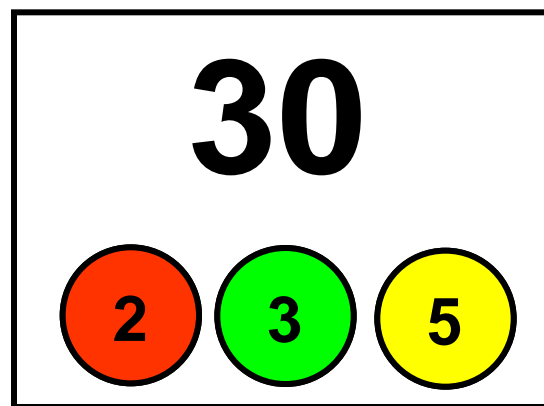
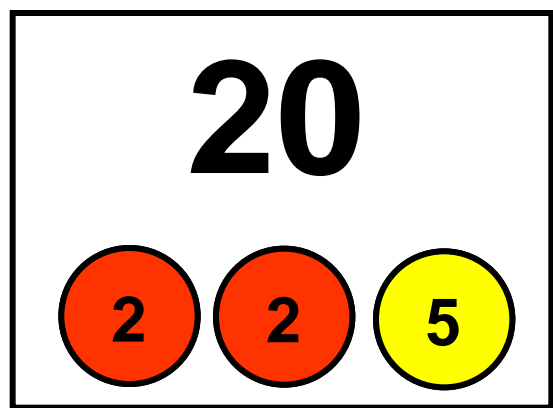
Legenda colori

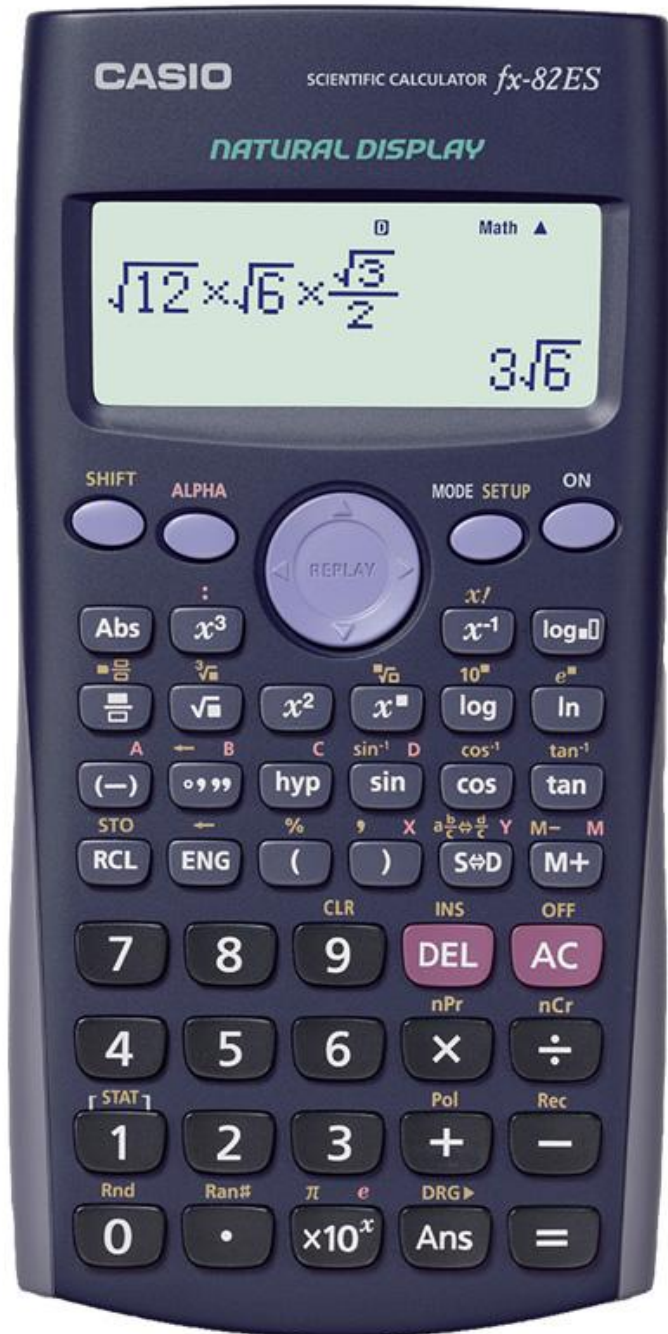
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

$$\frac{12}{18} = \frac{\begin{array}{ccc} \text{2} & \text{2} & \text{3} \\ \text{2} & \text{3} & \text{3} \end{array}}{\begin{array}{ccc} \text{2} & \text{3} & \text{3} \end{array}} = \frac{\begin{array}{c} \text{2} \\ \text{3} \end{array}}{\begin{array}{c} \text{3} \end{array}} = \frac{2}{3}$$

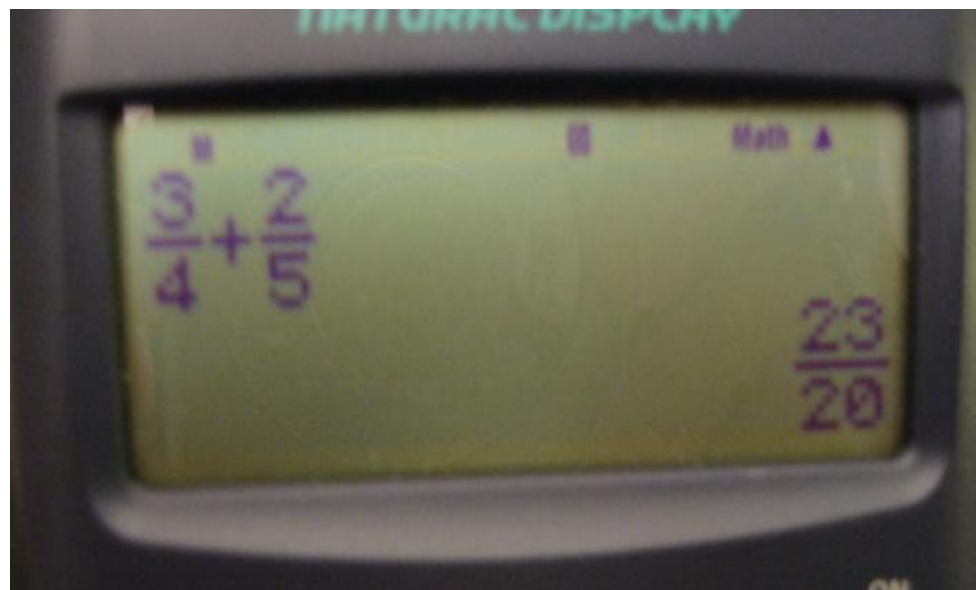
mcm

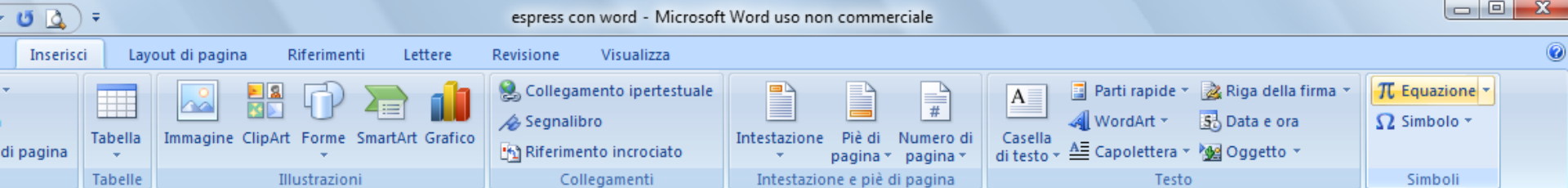
mcm tra **20** e **30** =  = **60**





La calcolatrice con display a due righe anche per le frazioni





ESPRESSIONE SCRITTA CON WORD 2007

(inserisci / equazione)

$$2 \times \left[1 - \left(\frac{2^2}{7} + \frac{1}{21} \times \frac{3}{2} \right) \right] - \frac{7}{8} \times \left(1 - \frac{1}{7} \right) - \frac{3}{28} =$$

$$2 \times \left[1 - \left(\frac{4}{7} + \frac{1}{14} - \frac{3}{14} \right) \right] - \frac{7}{8} \times \frac{6}{7} - \frac{3}{28} =$$

$$2 \times \left[1 - \frac{6}{14} \right] - \frac{1}{4} \times \frac{3}{1} - \frac{3}{28} =$$

$$2 \times \frac{8}{14} - \frac{3}{4} - \frac{3}{28} =$$

$$\frac{8}{7} - \frac{3}{4} - \frac{3}{28} =$$

$$\frac{32}{28} - \frac{21}{28} - \frac{3}{28} =$$

$$\frac{8}{28} = \frac{2}{7}$$

Equazione (ALT+=)

Consente di inserire equazioni matematiche comuni o di creare proprie equazioni utilizzando una raccolta di simboli matematici.

Per ulteriori informazioni, premere

Rita e Marco

RISOLVERE UNA ESPRESSIONE

$$\left(\frac{5}{3} - \frac{1}{6}\right) \times \left[\frac{2}{4} + \left(\frac{5}{4} \times \frac{2^2}{3} - \frac{5}{9} \times \frac{3}{10}\right) + 2, \bar{2} : 3, \bar{3}\right] =$$



Osservo:

- una parentesi quadrata e due tonde
- numeri frazionari e periodici
- le quattro operazioni e una potenza

1

Controllo errori:
copiatura e ortografia

2

Osservazione :

- parentesi
- numeri (interi, frazionari, decimali, periodici o relativi)
- operazioni (+ — x : potenze, radici)

RISOLVERE UNA ESPRESSIONE

$$\left(\frac{5}{3} - \frac{1}{6}\right) \times \left[\frac{2}{4} + \left(\frac{5}{4} \times \frac{2^2}{3} - \frac{5}{9} \times \frac{3}{10}\right) + \frac{2,2}{3} : \frac{3,3}{9}\right] =$$

$$\left(\frac{5}{3} - \frac{1}{6}\right) \times \left[\frac{1}{2} + \left(\frac{5}{4} \times \frac{4}{3} - \frac{5}{9} \times \frac{3}{10}\right) + \frac{20}{9} : \frac{30}{9}\right] =$$



- Semplifico la frazione
- calcolo la potenza
- trasformo i numeri periodici in frazioni

3

Precedenza

4

Calcolo e copiatura

5

Controllo errori:
calcolo, copiatura e ortografia

Rita e Marco

RISOLVERE UNA ESPRESSIONE

$$\left(\frac{5}{3} - \frac{1}{6}\right) \times \left[\frac{2}{4} + \left(\frac{5}{4} \times \frac{2^2}{3} - \frac{5}{9} \times \frac{3}{10}\right) + 2, \bar{2} : 3, \bar{3}\right] =$$

$$\left(\frac{5}{3} - \frac{1}{6}\right) \times \left[\frac{1}{2} + \left(\frac{5}{4} \times \frac{4}{3} - \frac{5}{9} \times \frac{3}{10}\right) + \frac{20}{9} : \frac{30}{9}\right] =$$

$$\frac{9}{6} \times \left[\frac{1}{2} + \left(\frac{5}{3} - \frac{1}{6}\right) + \frac{20}{9} \times \frac{9}{30}\right] =$$

$$\frac{9}{6} \times \left[\frac{1}{2} + \frac{3}{2} + \frac{2}{3}\right] =$$

$$\frac{9}{6} \times \frac{8}{3} = 4$$

3
Precedenza

4
Calcolo e copiatura

5
Controllo errori:
calcolo, copiatura e ortografia

Risolvi

$$-\frac{3x+9}{7} = -\frac{7x-1}{8}$$

$$-\frac{8(3x+9)}{56} = -\frac{7(7x-1)}{56}$$

$$-8(3x+9) = -7(7x-1)$$

$$-24x - 72 = -49x + 7$$

$$-24x + 49x = 72 - 7$$

$$25x = 65$$

$$x = \frac{13}{5}$$

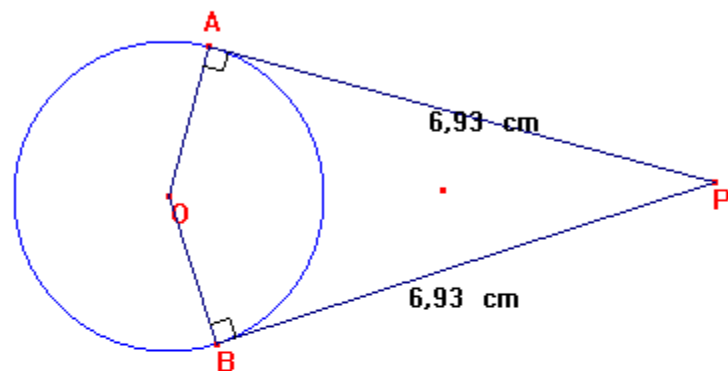
APLUSIX: un software per scrivere espressioni e correggere da soli gli errori con possibilità di controllo da parte dell'insegnante



www.aplusix.com/fr/

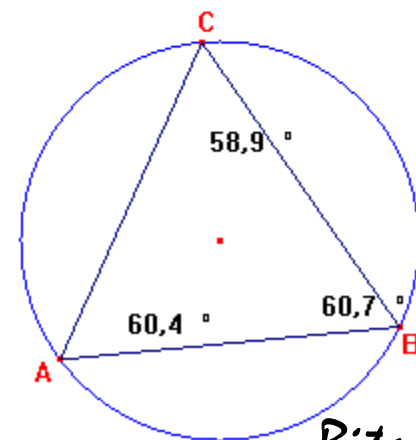
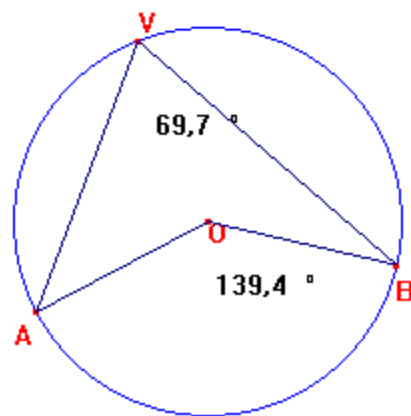
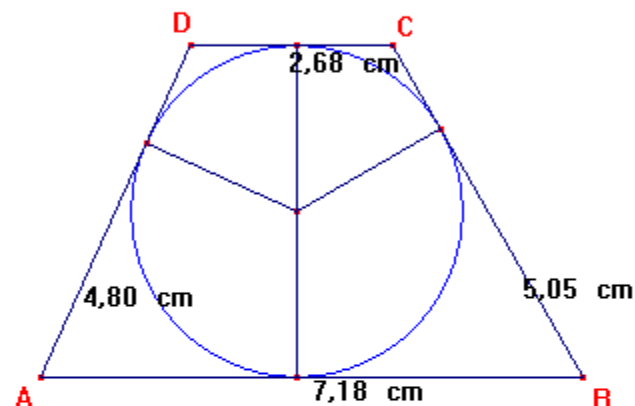


CABRI PER SCOPRIRE E VERIFICARE LE PROPRIETA'



$$AB + CD = 9,85 \text{ cm}$$

$$AD + BC = 9,85 \text{ cm}$$



Rita e Marco

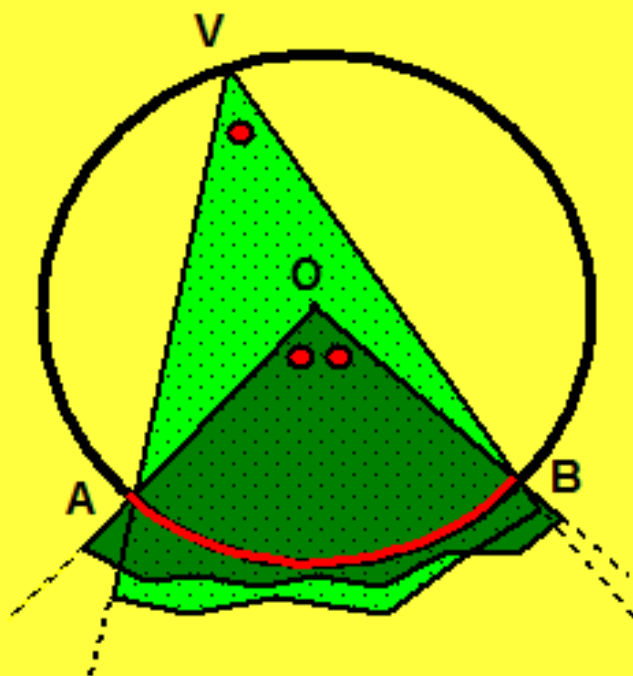
GEOMETRIA: STUDIO DI DEFINIZIONI, PROPRIETA' E TEOREMI

L'angolo al centro è doppio dell'angolo alla circonferenza che insiste sullo stesso arco.



?

$$\hat{AOB} = 2 \hat{AVB}$$



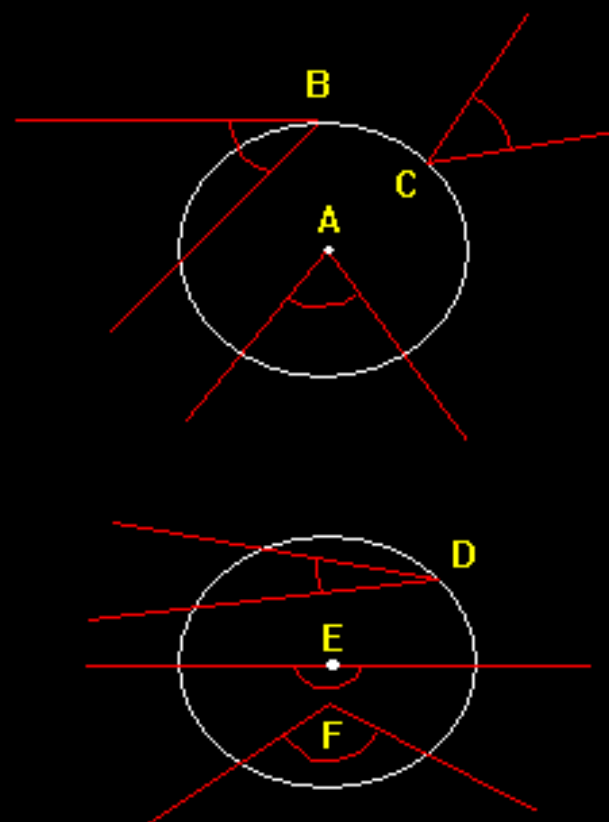
Dimostrazione





PREMI IL TASTO ESATTO

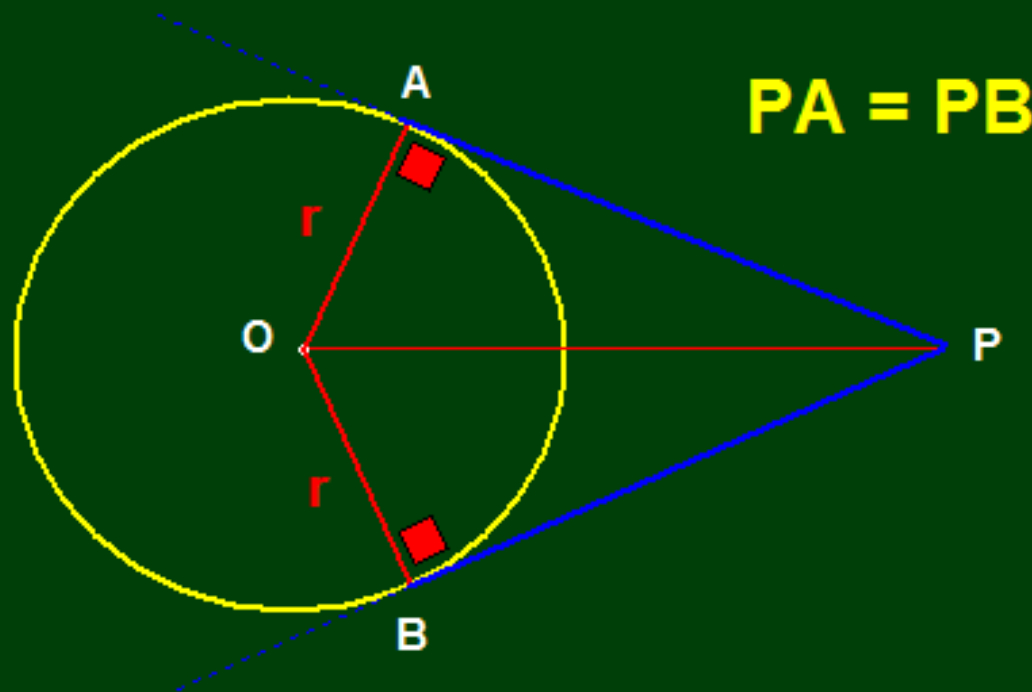
	ANGOLO AL CENTRO.	ANGOLO ALLA CIRCONF.	ALTRO
A	<input data-bbox="415 485 511 556" type="text" value="?"/>	<input data-bbox="627 485 724 556" type="text" value="?"/>	<input data-bbox="840 485 937 556" type="text" value="?"/>
B	<input data-bbox="415 592 511 664" type="text" value="?"/>	<input data-bbox="627 592 724 664" type="text" value="?"/>	<input data-bbox="840 592 937 664" type="text" value="?"/>
C	<input data-bbox="415 699 511 771" type="text" value="?"/>	<input data-bbox="627 699 724 771" type="text" value="?"/>	<input data-bbox="840 699 937 771" type="text" value="?"/>
D	<input data-bbox="415 806 511 878" type="text" value="?"/>	<input data-bbox="627 806 724 878" type="text" value="?"/>	<input data-bbox="840 806 937 878" type="text" value="?"/>
E	<input data-bbox="415 913 511 985" type="text" value="?"/>	<input data-bbox="627 913 724 985" type="text" value="?"/>	<input data-bbox="840 913 937 985" type="text" value="?"/>
F	<input data-bbox="415 1021 511 1092" type="text" value="?"/>	<input data-bbox="627 1021 724 1092" type="text" value="?"/>	<input data-bbox="840 1021 937 1092" type="text" value="?"/>



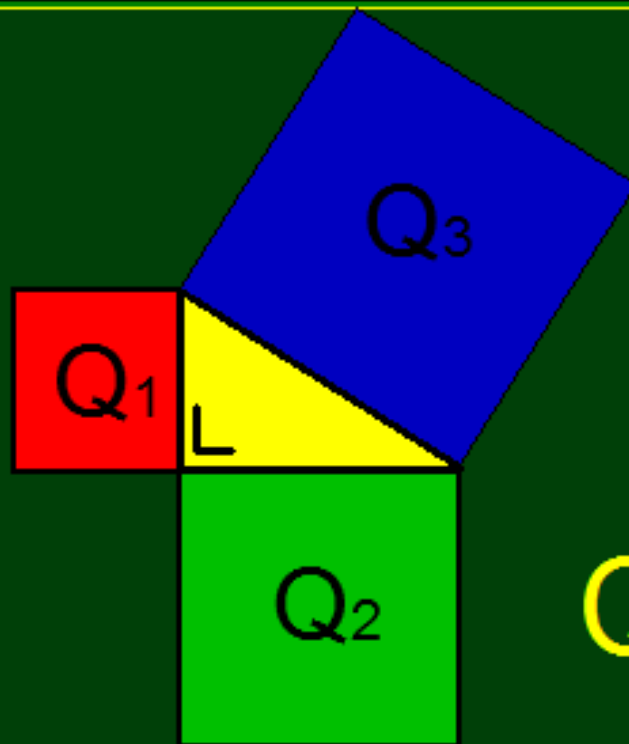
Pagina successiva



I segmenti di tangente condotti alla circonferenza da un punto esterno sono congruenti.



In ogni triangolo rettangolo la superficie del quadrato costruito sull'ipotenusa è equivalente alla somma delle superfici dei quadrati costruiti sui cateti.



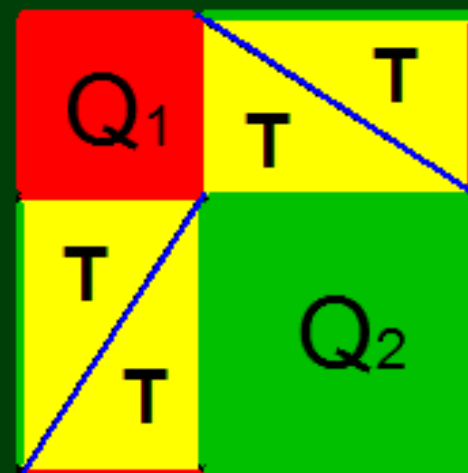
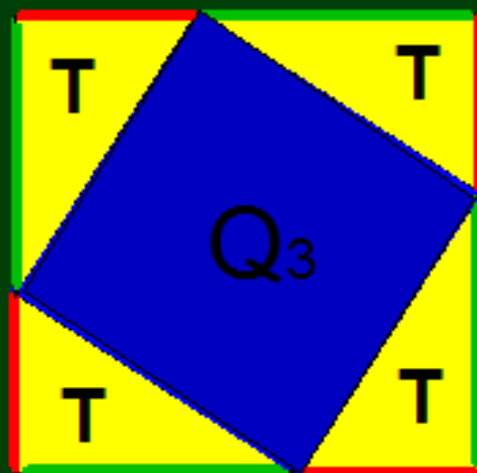
$$Q_3 = Q_1 + Q_2$$



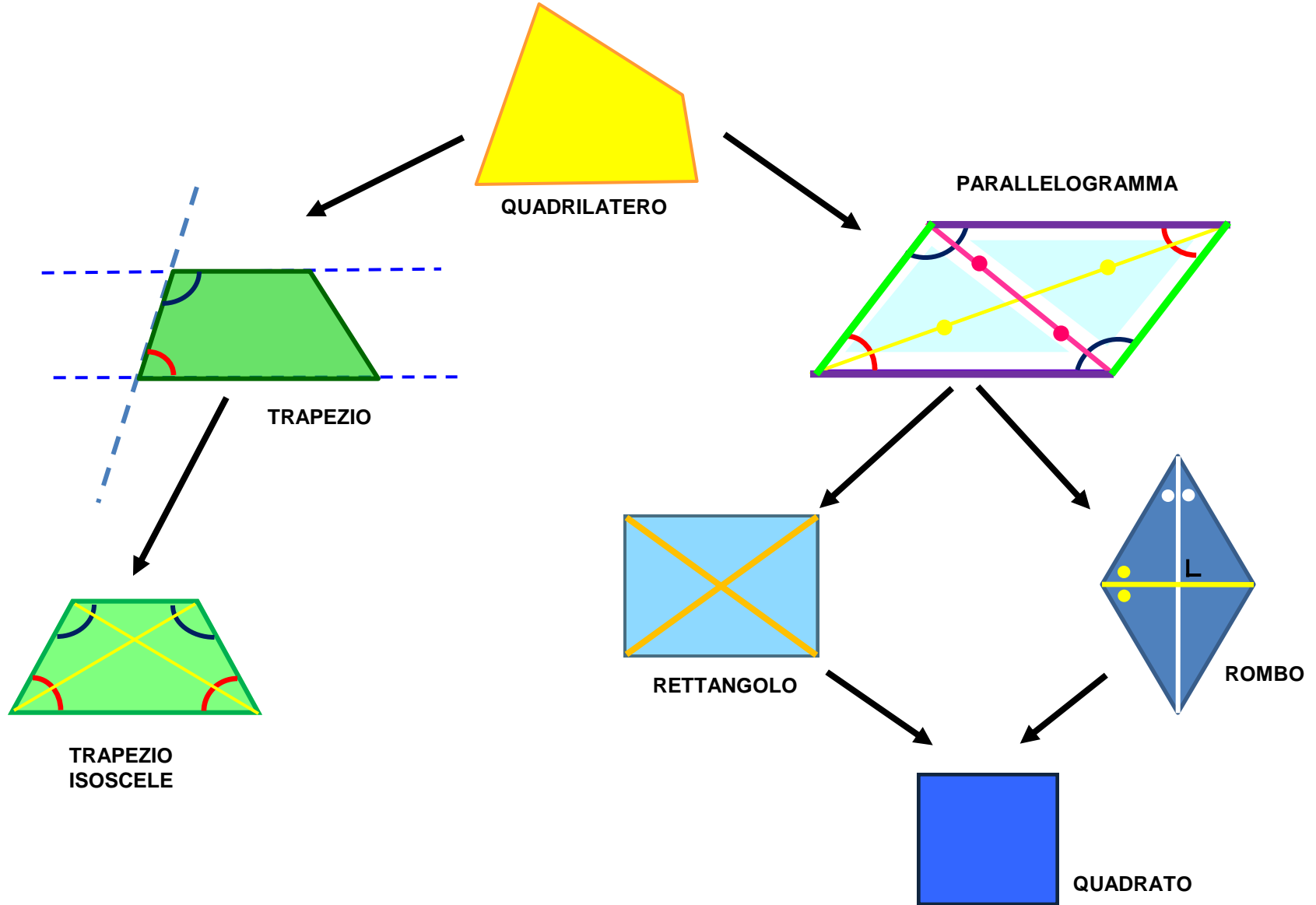
DIMOSTRIAMO CHE: $Q_3 = Q_1 + Q_2$



$$Q_3 = Q_1 + Q_2$$

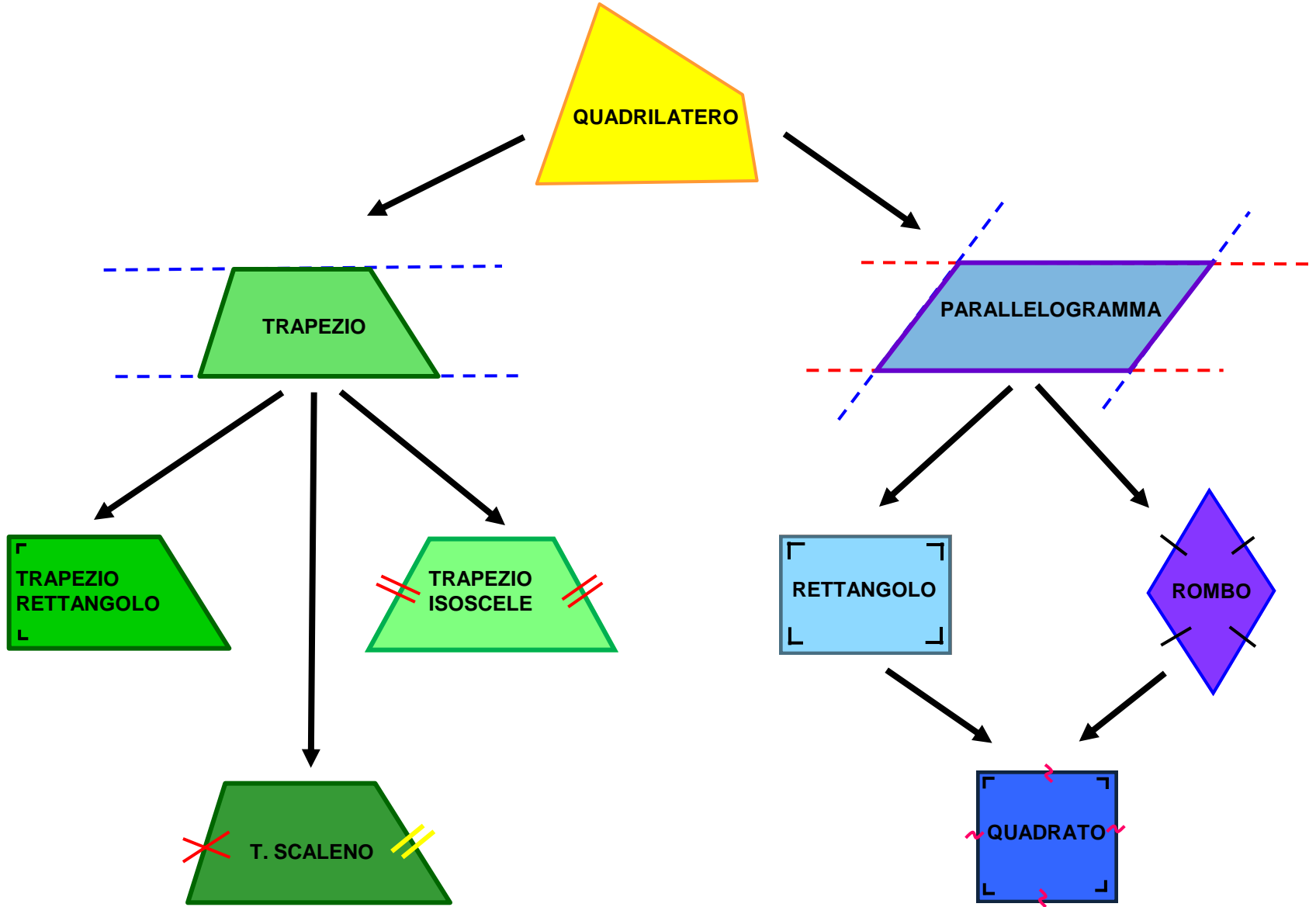


QUADRILATERI – PROPRIETA'

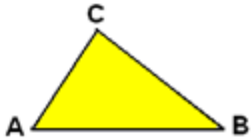
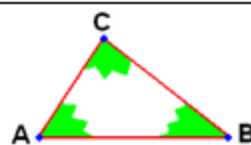
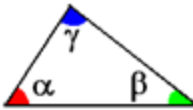
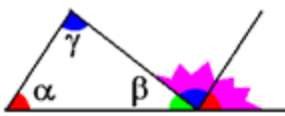
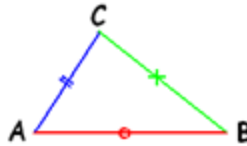
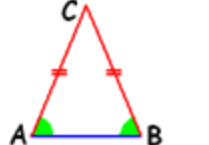
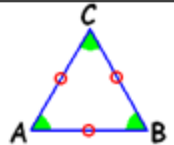


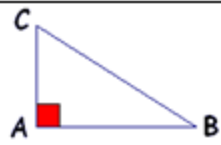
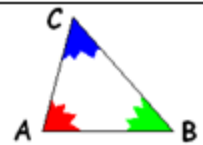
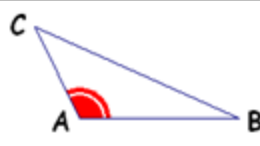
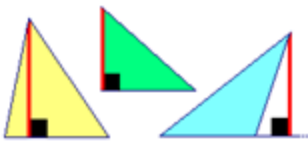
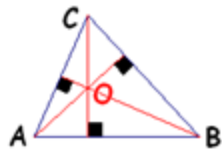
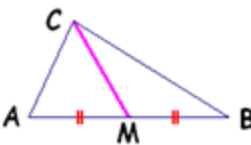
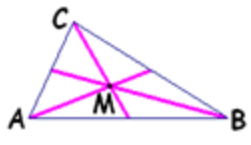
Rita e Marco

QUADRILATERI – DEFINIZIONI



L'ATLANTE DI GEOMETRIA: PER RICORDARE I NOMI

	TRIANGOLO $\triangle ABC$
	LATI: AB, BC, AC VERTICI: A, B, C ANGOLI $\hat{A}, \hat{B}, \hat{C}$
	$\alpha + \beta + \gamma = 180^\circ$
	ANGOLO ESTERNO = $\alpha + \gamma$
	TRIANGOLO SCALENO $AC \neq BC \neq AB$
	TRIANGOLO ISOSCELE $AC = BC$
	TRIANGOLO EQUILATERO $AC = BC = CA$

	TRIANGOLO RETTANGOLO
	TRIANGOLO ACUTANGOLO
	TRIANGOLO OTTUSANGOLO
	ALTEZZA $\blacksquare = 90^\circ$
	O = ORTOCENTRO INCONTRO DELLE ALTEZZE
	MEDIANA $AM = MB$
	M = BARICENTRO INCONTRO DELLE MEDIANE

I PROBLEMI CON LE FRAZIONI

$$A = \frac{3}{7} B$$

A

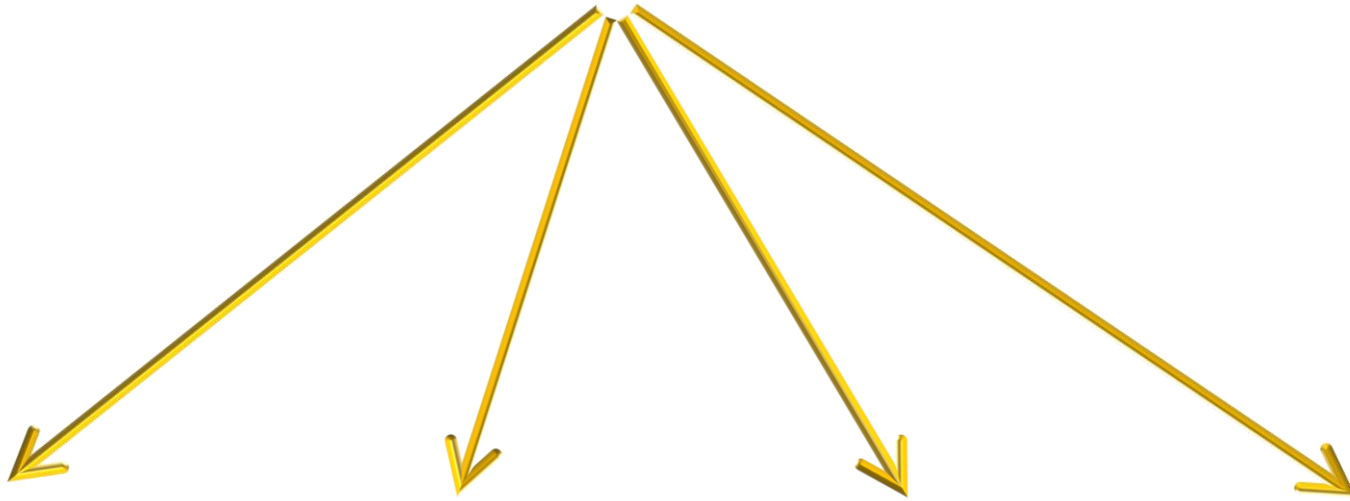


B



IL PROBLEMA SI RISOLVE
FACILMENTE SE TROVO QUANTO
VALE UN 

$$A = \frac{3}{7} B$$



CONOSCO A	CONOSCO B	CONOSCO A+B	CONOSCO A - B
----------------------	----------------------	------------------------	--------------------------

Conosco A

A



B



$$A : 3 = \text{—}$$

Conosco B

A



B



$$B : 7 = \text{—}$$

Conosco $A + B$

A



B



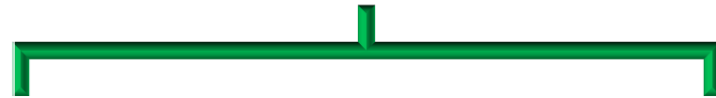
$$(A + B) : 10 = \text{—}$$

Conosco $A - B$

A



$A - B$



B



$$(A - B) : 4 = \text{one red block}$$