

MOLTIPLICAZIONE  
PIU' ELEVATO  
TABZLLINE MULTIPLO  
SI RIPETE  
DOPPIO  
.

gen 7-11.15

DIVISIONE  
PIU' ELEVATO  
PIU' PICCOLO  
DIVIDERE  
TABZLLINE  
DIVISORE  
QUALCOSA CHE  
VIENE TOLTO  
PARTI  
UGUALI  
SEPARAZIONE  
META'  
..

gen 7-11.21

Il multiplo  $m$  di un numero  $n$  è il prodotto di  $n$  per un altro numero  $f$ , dove  $n, m$  e  $f$  sono numeri interi.

$$m = n \times f$$

Un divisore  $d$  di un numero  $n$  è un numero che lo divide esattamente in parti uguali, cioè il resto della divisione è zero.

$$n = d \times f$$

gen 7-11.18

$$M_6 = \{6, 12, 18, 24, 30, 36 \dots \dots \}$$

$$D_6 = \{1, 2, 3, 6\}$$

$$M_{25} = \{25, 50, 75, 100 \dots \dots \}$$

$$D_{25} = \{1, 5, 25\}$$

$$25 = 1 \cdot 25$$

$$25 = 5 \times 5$$

gen 7-11.40

$$18$$

$$M_{18} = \{18, 36, 54, 72, 90, \dots\}$$

$$D_{18} = \{1, 2, 3, 6, 9, 18\}$$

gen 7-11.45

Il massimo comune divisore tra numeri: il più grande tra i divisori uguali tra i numeri

$$M.C.D.(12, 30, 18) = 6$$

$$D_{12} = \{1, 2, 3, 4, 6, 12\}$$

$$D_{30} = \{1, 2, 3, 5, 6, 10, 15, 30\}$$

$$D_{18} = \{1, 2, 3, 6, 9, 18\}$$

$$D_{12} \cap D_{30} \cap D_{18} = \{1, 2, 3, 6\}$$

gen 7-11.47

Il minimo comune multiplo tra numeri: il più piccolo tra i multipli uguali tra i numeri

$$m.c.m.(12, 30, 18) = 120, 132, 144, 156, 168, 180$$

$$M_{12} = \{12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264, 276, 288, 300, 312, 324, 336, 348, 360, 372, 384, 396, 408, 420, 432, 444, 456, 468, 480, 492, 504, 516, 528, 540, 552, 564, 576, 588, 600, 612, 624, 636, 648, 660, 672, 684, 696, 708, 720, 732, 744, 756, 768, 780, 792, 804, 816, 828, 840, 852, 864, 876, 888, 900, 912, 924, 936, 948, 960, 972, 984, 996, 1008, 1020, 1032, 1044, 1056, 1068, 1080, 1092, 1104, 1116, 1128, 1140, 1152, 1164, 1176, 1188, 1200, 1212, 1224, 1236, 1248, 1260, 1272, 1284, 1296, 1308, 1320, 1332, 1344, 1356, 1368, 1380, 1392, 1404, 1416, 1428, 1440, 1452, 1464, 1476, 1488, 1500, 1512, 1524, 1536, 1548, 1560, 1572, 1584, 1596, 1608, 1620, 1632, 1644, 1656, 1668, 1680, 1692, 1704, 1716, 1728, 1740, 1752, 1764, 1776, 1788, 1800, 1812, 1824, 1836, 1848, 1860, 1872, 1884, 1896, 1908, 1920, 1932, 1944, 1956, 1968, 1980, 1992, 2004, 2016, 2028, 2040, 2052, 2064, 2076, 2088, 2100, 2112, 2124, 2136, 2148, 2160, 2172, 2184, 2196, 2208, 2220, 2232, 2244, 2256, 2268, 2280, 2292, 2304, 2316, 2328, 2340, 2352, 2364, 2376, 2388, 2400, 2412, 2424, 2436, 2448, 2460, 2472, 2484, 2496, 2508, 2520, 2532, 2544, 2556, 2568, 2580, 2592, 2604, 2616, 2628, 2640, 2652, 2664, 2676, 2688, 2700, 2712, 2724, 2736, 2748, 2760, 2772, 2784, 2796, 2808, 2820, 2832, 2844, 2856, 2868, 2880, 2892, 2904, 2916, 2928, 2940, 2952, 2964, 2976, 2988, 3000, 3012, 3024, 3036, 3048, 3060, 3072, 3084, 3096, 3108, 3120, 3132, 3144, 3156, 3168, 3180, 3192, 3204, 3216, 3228, 3240, 3252, 3264, 3276, 3288, 3300, 3312, 3324, 3336, 3348, 3360, 3372, 3384, 3396, 3408, 3420, 3432, 3444, 3456, 3468, 3480, 3492, 3504, 3516, 3528, 3540, 3552, 3564, 3576, 3588, 3600, 3612, 3624, 3636, 3648, 3660, 3672, 3684, 3696, 3708, 3720, 3732, 3744, 3756, 3768, 3780, 3792, 3804, 3816, 3828, 3840, 3852, 3864, 3876, 3888, 3900, 3912, 3924, 3936, 3948, 3960, 3972, 3984, 3996, 4008, 4020, 4032, 4044, 4056, 4068, 4080, 4092, 4104, 4116, 4128, 4140, 4152, 4164, 4176, 4188, 4200, 4212, 4224, 4236, 4248, 4260, 4272, 4284, 4296, 4308, 4320, 4332, 4344, 4356, 4368, 4380, 4392, 4404, 4416, 4428, 4440, 4452, 4464, 4476, 4488, 4500, 4512, 4524, 4536, 4548, 4560, 4572, 4584, 4596, 4608, 4620, 4632, 4644, 4656, 4668, 4680, 4692, 4704, 4716, 4728, 4740, 4752, 4764, 4776, 4788, 4800, 4812, 4824, 4836, 4848, 4860, 4872, 4884, 4896, 4908, 4920, 4932, 4944, 4956, 4968, 4980, 4992, 5004, 5016, 5028, 5040, 5052, 5064, 5076, 5088, 5100, 5112, 5124, 5136, 5148, 5160, 5172, 5184, 5196, 5208, 5220, 5232, 5244, 5256, 5268, 5280, 5292, 5304, 5316, 5328, 5340, 5352, 5364, 5376, 5388, 5400, 5412, 5424, 5436, 5448, 5460, 5472, 5484, 5496, 5508, 5520, 5532, 5544, 5556, 5568, 5580, 5592, 5604, 5616, 5628, 5640, 5652, 5664, 5676, 5688, 5700, 5712, 5724, 5736, 5748, 5760, 5772, 5784, 5796, 5808, 5820, 5832, 5844, 5856, 5868, 5880, 5892, 5904, 5916, 5928, 5940, 5952, 5964, 5976, 5988, 6000, 6012, 6024, 6036, 6048, 6060, 6072, 6084, 6096, 6108, 6120, 6132, 6144, 6156, 6168, 6180, 6192, 6204, 6216, 6228, 6240, 6252, 6264, 6276, 6288, 6300, 6312, 6324, 6336, 6348, 6360, 6372, 6384, 6396, 6408, 6420, 6432, 6444, 6456, 6468, 6480, 6492, 6504, 6516, 6528, 6540, 6552, 6564, 6576, 6588, 6600, 6612, 6624, 6636, 6648, 6660, 6672, 6684, 6696, 6708, 6720, 6732, 6744, 6756, 6768, 6780, 6792, 6804, 6816, 6828, 6840, 6852, 6864, 6876, 6888, 6900, 6912, 6924, 6936, 6948, 6960, 6972, 6984, 6996, 7008, 7020, 7032, 7044, 7056, 7068, 7080, 7092, 7104, 7116, 7128, 7140, 7152, 7164, 7176, 7188, 7200, 7212, 7224, 7236, 7248, 7260, 7272, 7284, 7296, 7308, 7320, 7332, 7344, 7356, 7368, 7380, 7392, 7404, 7416, 7428, 7440, 7452, 7464, 7476, 7488, 7500, 7512, 7524, 7536, 7548, 7560, 7572, 7584, 7596, 7608, 7620, 7632, 7644, 7656, 7668, 7680, 7692, 7704, 7716, 7728, 7740, 7752, 7764, 7776, 7788, 7800, 7812, 7824, 7836, 7848, 7860, 7872, 7884, 7896, 7908, 7920, 7932, 7944, 7956, 7968, 7980, 7992, 8004, 8016, 8028, 8040, 8052, 8064, 8076, 8088, 8100, 8112, 8124, 8136, 8148, 8160, 8172, 8184, 8196, 8208, 8220, 8232, 8244, 8256, 8268, 8280, 8292, 8304, 8316, 8328, 8340, 8352, 8364, 8376, 8388, 8400, 8412, 8424, 8436, 8448, 8460, 8472, 8484, 8496, 8508, 8520, 8532, 8544, 8556, 8568, 8580, 8592, 8604, 8616, 8628, 8640, 8652, 8664, 8676, 8688, 8700, 8712, 8724, 8736, 8748, 8760, 8772, 8784, 8796, 8808, 8820, 8832, 8844, 8856, 8868, 8880, 8892, 8904, 8916, 8928, 8940, 8952, 8964, 8976, 8988, 9000, 9012, 9024, 9036, 9048, 9060, 9072, 9084, 9096, 9108, 9120, 9132, 9144, 9156, 9168, 9180, 9192, 9204, 9216, 9228, 9240, 9252, 9264, 9276, 9288, 9300, 9312, 9324, 9336, 9348, 9360, 9372, 9384, 9396, 9408, 9420, 9432, 9444, 9456, 9468, 9480, 9492, 9504, 9516, 9528, 9540, 9552, 9564, 9576, 9588, 9600, 9612, 9624, 9636, 9648, 9660, 9672, 9684, 9696, 9708, 9720, 9732, 9744, 9756, 9768, 9780, 9792, 9804, 9816, 9828, 9840, 9852, 9864, 9876, 9888, 9900, 9912, 9924, 9936, 9948, 9960, 9972, 9984, 9996, 10008, 10020, 10032, 10044, 10056, 10068, 10080, 10092, 10104, 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11832, 11844, 11856, 11868, 11880, 11892, 11904, 11916, 11928, 11940, 11952, 11964, 11976, 11988, 12000, 12012, 12024, 12036, 12048, 12060, 12072, 12084, 12096, 12108, 12120, 12132, 12144, 12156, 12168, 12180, 12192, 12204, 12216, 12228, 12240, 12252, 12264, 12276, 12288, 12300, 12312, 12324, 12336, 12348, 12360, 12372, 12384, 12396, 12408, 12420, 12432, 12444, 12456, 12468, 12480, 12492, 12504, 12516, 12528, 12540, 12552, 12564, 12576, 12588, 12600, 12612, 12624, 12636, 12648, 12660, 12672, 12684, 12696, 12708, 12720, 12732, 12744, 12756, 12768, 12780, 12792, 12804, 12816, 12828, 12840, 12852, 12864, 12876, 12888, 12900, 12912, 12924, 12936, 12948, 12960, 12972, 12984, 12996, 13008, 13020, 13032, 13044, 13056, 13068, 13080, 13092, 13104, 13116, 13128, 13140, 13152, 13164, 13176, 13188, 13200, 13212, 13224, 13236, 13248, 13260, 13272, 13284, 13296, 13308, 13320, 13332, 13344, 13356, 13368, 13380, 13392, 13404, 13416, 13428, 13440, 13452, 13464, 13476, 13488, 13500, 13512, 13524, 13536, 13548, 13560, 13572, 13584, 13596, 13608, 13620, 13632, 13644, 13656, 13668, 13680, 13692, 13704, 13716, 13728, 13740, 13752, 13764, 13776, 13788, 13800, 13812, 13824, 13836, 13848, 13860, 13872, 13884, 13896, 13908, 13920, 13932, 13944, 13956, 13968, 13980, 13992, 14004, 14016, 14028, 14040, 14052, 14064, 14076, 14088, 14100, 14112, 14124, 14136, 14148, 14160, 14172, 14184, 14196, 14208, 14220, 14232, 14244, 14256, 14268, 14280, 14292, 14304, 14316, 14328, 14340, 14352, 14364, 14376, 14388, 14400, 14412, 14424, 14436, 14448, 14460, 14472, 14484, 14496, 14508, 14520, 14532, 14544, 14556, 14568, 14580, 14592, 14604, 14616, 14628, 14640, 14652, 14664, 14676, 14688, 14700, 14712, 14724, 14736, 14748, 14760, 14772, 14784, 14796, 14808, 14820, 14832, 14844, 14856, 14868, 14880, 14892, 14904, 14916, 14928, 14940, 14952, 14964, 14976, 14988, 15000, 15012, 15024, 15036, 15048, 15060, 15072, 15084, 15096, 15108, 15120, 15132, 15144, 15156, 15168, 15180, 15192, 15204, 15216, 15228, 15240, 15252, 15264, 15276, 15288, 15300, 15312, 15324, 15336, 15348, 15360, 15372, 15384, 15396, 15408, 15420, 15432, 15444, 15456, 15468, 15480, 15492, 15504, 15516, 15528, 15540, 15552, 15564, 15576, 15588, 15600, 15612, 15624, 15636, 15648, 15660, 15672, 15684, 15696, 15708, 15720, 15732, 15744, 15756, 15768, 15780, 15792, 15804, 15816, 15828, 15840, 15852, 15864, 15876, 15888, 15900, 15912, 15924, 15936, 15948, 15960, 15972, 15984, 15996, 16008, 16020, 16032, 16044, 16056, 16068, 16080, 16092, 16104, 16116, 16128, 16140, 16152, 16164, 16176, 16188, 16200, 16212, 16224, 16236, 16248, 16260, 16272, 16284, 16296, 16308, 16320, 16332, 16344, 16356, 16368, 16380, 16392, 16404, 16416, 16428, 16440, 16452, 16464, 16476, 16488, 16500, 16512, 16524, 16536, 16548, 16560, 16572, 16584, 16596, 16608, 16620, 16632, 16644, 16656, 16668, 16680, 16692, 16704, 16716, 16728, 16740, 16752, 16764, 16776, 16788, 16800, 16812, 16824, 16836, 16848, 16860, 16872, 16884, 16896, 16908, 16920, 16932, 16944, 16956, 16968, 16980, 16992, 17004, 17016, 17028, 17040, 17052, 17064, 17076, 17088, 17100, 17112, 17124, 17136, 17148, 17160, 17172, 17184, 17196, 17208, 17220, 17232, 17244, 17256, 17268, 17280, 17292, 17304, 17316, 17328, 17340, 17352, 17364, 17376, 17388, 17400, 17412, 17424, 17436, 17448, 17460, 17472, 17484, 17496, 17508, 17520, 17532, 17544, 17556, 17568, 17580, 17592, 17604, 17616, 17628, 17640, 17652, 17664, 17676, 17688, 17700, 17712, 17724, 17736, 17748, 17760, 17772, 17784, 17796, 17808, 17820, 17832, 17844, 17856, 17868, 17880, 17892, 17904, 17916, 17928, 17940, 17952, 17964, 17976, 17988, 18000, 18012, 18024, 18036, 18048, 18060, 18072, 18084, 18096, 18108, 18120, 18132, 18144, 18156, 18168, 18180, 18192, 18204, 18216, 18228, 18240, 18252, 18264, 18276, 18288, 18300, 18312, 18324, 18336, 18348, 18360, 18372, 18384, 18396, 18408, 18420, 18432, 18444, 18456, 18468, 18480, 18492, 18504, 18516, 18528, 18540, 18552, 18564, 18576, 18588, 18600, 18612, 18624, 18636, 18648, 18660, 18672, 18684, 18696, 18708, 18720, 18732, 18744, 18756, 18768, 18780, 18792, 18804, 18816, 18828, 18840, 18852, 18864, 18876, 18888, 18900, 18912, 18924, 18936, 18948, 18960, 18972, 18984, 18996, 19008, 19020, 19032, 19044, 19056, 19068, 19080, 19092, 19104, 19116, 19128, 19140, 19152, 19164, 19176, 19188, 19200, 19212, 19224, 19236, 19248, 19260, 19272, 19284, 19296, 19308, 19320, 19332, 19344, 19356, 19368, 19380, 19392, 19404, 19416, 19428, 19440, 19452, 19464, 19476, 19488, 19500, 19512, 19524, 19536, 19548, 19560, 19572, 19584, 19596, 19608, 19620, 19632, 19644, 19656, 19668, 19680, 19692, 19704, 19716, 19728, 19740, 19752, 19764, 19776, 19788, 19800, 19812, 19824, 19836, 19848, 19860, 19872, 19884, 19896, 19908, 19920, 19932, 19944, 19956, 19968, 19980, 19992, 20004, 20016, 20028, 20040, 20052, 20064, 20076, 20088, 20100, 20112, 20124, 20136, 20148, 20160, 20172, 20184, 20196, 20208, 20220, 20232, 20244, 20256, 20268, 20280, 20292, 20304, 20316, 20328, 20340, 20352, 20364, 20376, 20388, 20400, 20412, 20424, 20436, 20448, 20460, 20472, 20484, 20496, 20508, 20520, 20532, 20544, 20556, 20568, 20580, 20592, 20604, 20616, 20628, 20640, 20652, 20664, 20676, 20688, 20700, 20712, 20724, 20736, 20748, 20760, 20772, 20784, 20796, 20808, 20820, 20832, 20844, 20856, 20868, 20880, 20892, 20904, 20916, 20928, 20940, 20952, 20964, 20976, 20988, 21000, 21012, 21024, 21036, 21048, 21060, 21072, 21084, 21096, 21108, 21120, 21132, 21144, 21156, 21168, 21180, 21192, 21204, 21216, 21228, 21240, 21252, 21264, 21276, 21288, 21300, 21312, 21324, 21336, 21348, 21360, 21372, 21384, 21396, 21408, 21420, 21432, 21444, 21456, 21468, 21480, 21492, 21504, 21516, 21528, 21540, 21552, 21564, 21576, 21588, 21600, 21612, 21624, 21636, 21648, 21660, 21672, 21684, 21696, 21708, 21720, 21732, 21744, 21756, 21768, 21780, 21792, 21804, 21816, 21828, 21840, 21852, 21864, 21876, 21888, 21900, 21912, 21924, 21936, 21948, 21960, 21972, 21984, 21996, 22008, 22020, 22032, 22044, 22056, 22068, 22080, 22092, 22104, 22116, 22128, 22140, 22152, 22164, 22176, 22188, 22200, 22212, 22224, 22236, 22248, 22260, 22272, 22284, 22296, 22308, 22320, 22332,$$

~~2064591~~ 51.

$2+6+4+5+9+1 = 27$

$D_{185} = \{1, 5, 37, 185\}$

$23 \cdot 5 = 115$       $185 = 5 \cdot 37$

$25 \cdot 29 \cdot 5 = 3625$       $185 = 5 \cdot 37$

gen 7-11.44

$D_{318} = \{1, 2, 3, 6, 53, 106, 159, 318\}$

$D_{582} = \{1, 2, 3, 6, 97, 194, 291, 582\}$

7 51

$\overline{582} : 7 = 8 \text{ no } \times -12 \text{ non-multiplo di } 7$

8 no  $8 = 4 \cdot 2$   
non 71

gen 8-11.59

$$D_2 = \{1, 2\}$$

$$D_3 = \{1, 3\}$$

$$D_5 = \{1, 5\}$$

$$D_7 = \{1, 7\}$$

$$D_{11} = \{1, 11\}$$

NUMERI  
PRIMI

gen 14-10.57

$$12 = 6 \cdot 2 = 3 \cdot 2 \cdot 2 = 2^2 \cdot 3$$

$$= 3 \cdot 4 = 3 \cdot 2 \cdot 2 = 2^2 \cdot 3$$

$$18 = 6 \cdot 3 = 3 \cdot 2 \cdot 3 = 2 \cdot 3^2$$

$$24 = 12 \cdot 2 = 2 \cdot 2^2 \cdot 3 = 2^3 \cdot 3$$

$$8 \cdot 3 = 2^3 \cdot 3$$

$$6 \cdot 4 = 2 \cdot 3 \cdot 2 \cdot 2 = 2^3 \cdot 3$$

gen 14-11.02

$$15 = 3 \cdot 5$$

$$180 = 18 \cdot 10 = 3 \cdot 6 \cdot 5 \cdot 2 = 2^2 \cdot 3^2 \cdot 5$$

$$= 3 \cdot 2 \cdot 3 \cdot 5 \cdot 2 = 2^2 \cdot 3^2 \cdot 5$$

1 a 50

360

800

gen 14-11.09

582      15

9 no perché la somma di 8,5,2 e 15 che non è multiplo di 3.

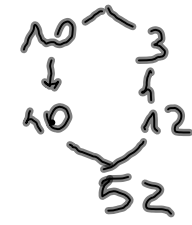
10 no x̄ 10 = 2 · 5 ma 5 non c'è

11  $\begin{array}{r} 582 \\ 32 \end{array} \cdot 11 = 582$  no x̄ per ottenere un 2 finale doubei multipli. are x 2 ma 11 · 2 = 22

12 no x̄ 12 = 3 · 4 e 4 non c'è

gen 15-8.27

$$\begin{array}{r} \overline{582} \\ 62 \end{array} : 13 = 44$$



per ottenere 2 m. finale devo  
 moltiplicare  $\times 4 \rightarrow 13 \times 4 \rightarrow 52$  no

$D_{582} = \{ 1, 2, 3, 6, 97, 194, 291, 582 \}$

$$\begin{array}{r} \overline{582} \\ 22 \end{array} : 7 = 83,$$

lh no perché multiplo di 7

gen 15-8.31

15 no perché multiplo di 5  
 12 no " " " 8

$$\begin{array}{r} \overline{582} \\ 72 \end{array} : 17 = 3$$

dovrei provar. 6  
 x ottenere un 2 finale  
 $17 \times 6 = 102$   
NO

18 no m. 9

$$\begin{array}{r} \overline{582} \\ 12 \end{array} : 19 = 30$$

gen 15-8.39

|    |    |               |                       |
|----|----|---------------|-----------------------|
| 20 | no | <del>px</del> | $20 = 10 \cdot 2$     |
| 21 | "  | it            | $\rightarrow$ non c'è |
| 22 | .  |               | m. 7                  |
|    |    |               | m. 11                 |
| 23 |    |               |                       |

$582 \cdot 23 = 25$   
 $122$   
 $7$

$23 \cdot 4 = 92$   
 $20$

$24$  no  $x^-$  m. 8, 12, 4

$582 = 23 \cdot 25, \dots$

gen 15-8.33

|     |     |                       |
|-----|-----|-----------------------|
| 800 | ↓   | NUMERI PRIMI          |
| 80  | 2.5 | o potenze di n° primi |
| 8   | 2.5 |                       |
| 4   | 2   |                       |
| 1   | 2.2 |                       |

Finisce per 0  $\Rightarrow$  è divisibile per 10  
 non è primo  $\Rightarrow 2 \cdot 5$

$8 | 2 \cdot 2 \cdot 2$        $8 | 2^3$   
 $1 |$                        $1 |$

$800 = 2^5 \cdot 5^2$

gen 15-8.49

$$7200000 \mid 2^5 \cdot 5^5$$

$$72 \mid 3 \cdot 3 \cdot 2^3$$

$$72 = 9 \cdot 8$$

$$4 \cdot 2$$

$$7200000 = 2^8 \cdot 3^2 \cdot 5^5$$

gen 15-8.54

MINIMO COMUNE MULTIPLO

mcm (18, 24)

|    |    |
|----|----|
| 18 | 24 |
| 36 | 48 |
| 54 | 60 |
| 72 | 72 |
| 90 |    |

ma × fare in modo più corto

.

.

gen 22-8.21

gen 22-11.33

1) Scomponiamo in fattori primi

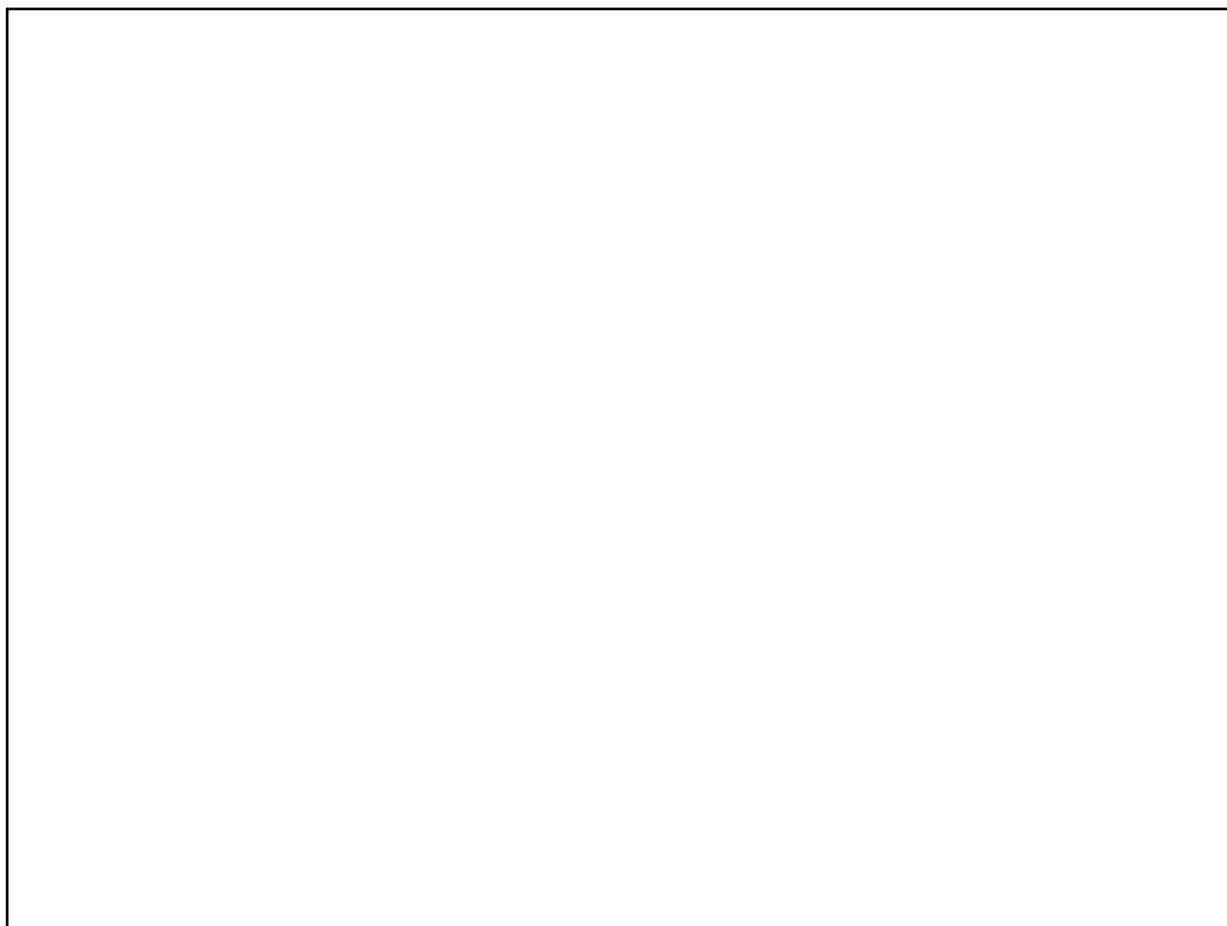
$$\begin{array}{r|l} 18 & 2 \\ 9 & 3^2 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 24 & 3 \cdot 2 \cdot 2^2 \\ 1 & \end{array}$$

$$18 = 2 \cdot 3^2$$

$$24 = 2^3 \cdot 3$$

gen 22-8.25



gen 22-11.37

2) Cerchiamo un multiplo comune cioè un multiplo di entrambi, ma se cerchiamo un multiplo dobbiamo moltiplicare per qualcosa che li porti allo stesso numero

$$18 = 2 \cdot 3^2$$

$$24 = 2^3 \cdot 3$$

$$2^2$$

$$3$$

$$72$$

$$\frac{72}{2^3 \cdot 3^2}$$

Sapendo che devo arrivare su  $72 : 18 = 4$   
 72 è facile, moltiplico per quel che  
 manca.  
 Ma se non so il 72?

gen 22-8.28

Devo portare ogni riga allo stesso risultato, ovvero alla stessa quantità di fattori presenti

$$\begin{array}{l}
 18 = 2 \cdot 3^2 \\
 24 = 2^3 \cdot 3
 \end{array}
 \quad
 \begin{array}{l}
 2^2 \quad 3^0 \\
 2^0 \quad 3^1 \\
 2^3 \quad 3^2
 \end{array}
 \quad
 \leftarrow \text{ciò che manca}$$

$\underbrace{\hspace{10em}}$   
 Ciò che ho

ciò che voglio

tutti i fattori presi una sola volta con l'esponente più grande

gen 22-8.39

$$\begin{array}{l}
 18 = 2 \cdot 3^2 \\
 24 = 2^3 \cdot 3
 \end{array}
 \quad
 \begin{array}{l}
 2^2 \quad 3^0 \\
 2^0 \quad 3^1 \\
 2^3 \quad 3^2
 \end{array}
 \quad
 \begin{array}{l}
 = 4 \cdot 1 = 4 \\
 = 1 \cdot 3 = 3
 \end{array}
 \quad
 \begin{array}{l}
 18 \cdot 4 = 72 \\
 24 \cdot 3 = 72
 \end{array}$$

$\underbrace{\hspace{10em}}$   
 Ciò che ho

gen 22-11.13

$$\begin{array}{l}
 3^4 \cdot 5^2 \cdot 7^{10} \\
 2^5 \cdot 3^6 \cdot 5 \cdot 7^{11}
 \end{array}
 \quad
 \begin{array}{l}
 5 \cdot 3^2 \cdot 5^0 \cdot 7^1 \\
 3^0 \cdot 3^0 \cdot 5^1 \cdot 7^0 \\
 2^5 \cdot 3^6 \cdot 5^2 \cdot 7^{11}
 \end{array}$$

.

.

gen 22-8.45

$$\text{mcm}(120; 144) = 720$$

$$\begin{array}{l|l}
 120 & 5 \cdot 2 \\
 12 & 2^2 \cdot 3 \\
 1 & 
 \end{array}
 \quad
 \begin{array}{l|l}
 144 & 2^2 \\
 36 & 3^2 \cdot 2^2 \\
 1 & 
 \end{array}$$

$$\begin{array}{l}
 120 = 2^3 \cdot 3 \cdot 5 \\
 144 = 2^4 \cdot 3^2
 \end{array}
 \quad
 \begin{array}{l|l|l}
 2^1 & 3^1 & 5^0 \\
 2^0 & 3^0 & 5^1 \\
 2^4 & 3^2 & 5
 \end{array}
 = 2 \cdot 3 \cdot 1 = 6$$

$$\begin{array}{l|l}
 2^0 & 5^1 \\
 2^4 & 5
 \end{array}
 = 1 \cdot 1 \cdot 5 = 5$$

$$120 \cdot 6 = 720 \quad 144 \cdot 5 = 720$$

gen 22-11.18