

Alison wanted multiples of 5, so to save time we know the only thing ends in a 5 or 0 is a multiple of 5.

Eg: 150 695 would be as they end in a 0 or a 5 so 210 would be.

Becky wanted triangular numbers and to find a triangular number go down

Mary marks the number has then see if it's a triangular number find a 2 numbers that are equal a bigger number. Eg $35 \times 6 = 210$ so it would be 35 or 6. Triangular numbers



Som wants even but not 4 related so.

$4 \sqrt{280} = 20$ so it doesn't go into 200.

$4 \sqrt{10} = 2.5$ so it doesn't go into 10

Matt wants multiples of 3 but you get 210 which doesn't go into 4 and is even. So if you add both answers together you get 210 which doesn't go into 4 and is even. So it doesn't go into 200 which is 9 but 3 goes into 210 and 9 doesn't go into 210.

$3 \sqrt{66} = 66$

$3 \sqrt{200} = 66$

$9 \sqrt{200} = 66$

$3 \sqrt{210} = 70$

$7 \sqrt{210} = 70$

In conclusion, 210 is a multiple of 3, it is even but not a multiple of 5. It is a multiple of 3 but not 5. So it goes into all of the statements.

Q11 If it ends in a 0 it would satisfy both statements as

20 is 10 is 30 is 210 is So it shows that the right and if it's in a five or a 0 it is a multiple of 5. This shows why they're right.

Q22 Any thing that ends in a 0 is a multiple of 3 and 5. Eg 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600, 630, 660, 690, 720, 750, 780, 810, 840, 870, 900, 930, 960, 990, 1020, 1050, 1080, 1110, 1140, 1170, 1200, 1230, 1260, 1290, 1320, 1350, 1380, 1410, 1440, 1470, 1500, 1530, 1560, 1590, 1620, 1650, 1680, 1710, 1740, 1770, 1800, 1830, 1860, 1890, 1920, 1950, 1980, 2010, 2040, 2070, 2100, 2130, 2160, 2190, 2220, 2250, 2280, 2310, 2340, 2370, 2400, 2430, 2460, 2490, 2520, 2550, 2580, 2610, 2640, 2670, 2700, 2730, 2760, 2790, 2820, 2850, 2880, 2910, 2940, 2970, 3000, 3030, 3060, 3090, 3120, 3150, 3180, 3210, 3240, 3270, 3300, 3330, 3360, 3390, 3420, 3450, 3480, 3510, 3540, 3570, 3600, 3630, 3660, 3690, 3720, 3750, 3780, 3810, 3840, 3870, 3900, 3930, 3960, 3990, 4020, 4050, 4080, 4110, 4140, 4170, 4200, 4230, 4260, 4290, 4320, 4350, 4380, 4410, 4440, 4470, 4500, 4530, 4560, 4590, 4620, 4650, 4680, 4710, 4740, 4770, 4800, 4830, 4860, 4890, 4920, 4950, 4980, 5010, 5040, 5070, 5100, 5130, 5160, 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