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| --- | --- |
| counting | counting on |
| counting in twos, threes etc. from zero | counting in twos, threes etc. from a given starting number |
| counting in tens | counting on repeatedly |
| counting in hundreds | repeated addition |
| sequences that go up in equal steps | sequences that go down in equal steps |
| 'gazzupins' | counting the number of steps |
| enumerating completed arrays using repeated counting | recursive description of additive sequences, i.e. how to get next term from previous term |
| multiplication of single digit whole numbers | multiplication facts written several ways |
| multiplication facts known as times tables | undoing multiplication facts (backwards tables) |
| multiplying by ten | multiplying by a hundred |
| enumerating completed arrays using multiplication | area of rectangles with squared paper |
| enumerating incomplete arrays using counting | enumerating incomplete arrays using multiplication |
| area of composite rectilinear shapes | multiplying *n* to get a sequence value |
| double | double and double again ... |

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| how many parts? | how much in each part? |
| unit fractions of stuff | unit fractions of cake |
| unit fractions of length | units fractions of number |
| non-unit fractions <1 of stuff  | non-unit fractions <1 of cake |
| non-unit fractions <1 of length | non-unit fractions <1 of number |
| non-unit fractions >1 of stuff  | non-unit fractions >1 of cake |
| non-unit fractions >1 of length | non-unit fractions >1 of number |
| half of | half of a half of .... |
| dividing whole numbers that go exactly from times tables | dividing whole numbers that do not go exactly but are within times tables scope |
| units | measuring length |
| fractions of length | multiplying and dividing lengths |
| fractions as division | division as fractions |
| how many ... go into ....? | how much more than? |
| how multiplying the unit has same effect as multiplying the whole measurement | changing units |
| grouping non-countable stuff | grouping countable objects |
| sharing countable objects | sharing non-countable stuff |
| measuring growth | shrinking and growing as multiplication/division |
| comparing lengths | comparing liquids (water, lentils) |
| per cent | rate of change |
| speed as distance/time | growth over time |

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| unequal sharing of countable objects | fractions with same denominator that add up to one |
| wet mixtures | recipes |
| so much per so much | conversion rules and graphs |
| 'this corresponds to that' problems |  |