Adding and subtracting
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1. **Adding and subtracting fit together**

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| Whole-part-part diagram | Family of number sentences |
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| 12 |
| 8 | 4 |

 | 8 + 4 = 124 + 8 = 1212 – 4 = 812 – 8 = 4 | 12 = 8 + 412 = 4 + 88 = 12 – 4 4 = 12 – 8  |

1. **Four types of word problems**

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| **DYNAMIC MOVIE OR VIDEO** | **STATIC OR STILL PHOTO** |
| **Change increase**I have 8 apples. I am given some more apples. Now I have 12 apples.start + change = result | **Collection**I have some 12 apples. 8 are green, the rest are red. How many apples are red?whole = part + part |
| **Change decrease** | **Compare** |
| I have 12 apples. My brothers and sisters ate some. Now there are 8 apples. How many apples were eaten? | I have 12 apples. You have 8 apples. How many more apples do I have than you? |
| start - change = result | whole = part + part |

1. **Drawing adding and subtracting pictures**

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| **DYNAMIC MOVIE OR VIDEO** | **STATIC OR STILL PHOTO** |
| 7 – 5 = …Start with 7 and take-away 5:You are left with **2.**You land on **2.** The result is **2**.7 – 5 = 2 | 7 – 5 = … or 5 + … = 7Compare 7 and 5:7 is **2** more than 5. 5 is **2** less than 7.The difference between 5 and 7 is **2.** 7 – 5 = 2 |