

Can I make and justify decisions about when and how to use a calculator effectively to solve problems?

Problem cards

Cut out these problem cards. Read each one carefully. Sort the problems into three sets:

- Problems you would solve using mental methods.
- Problems you would solve using written methods.
- Problems you would solve using calculator methods.

Compare your decisions with a friend and discuss reasons for your choices.

David and Becky eat 25 grapes between them. David eats seven fewer grapes than Becky. How many grapes do they each eat?	Paul buys three books which each cost £5.99. How much change would he get from £20?
A van carries bricks to a building site. The maximum load for the van is 3000 kg. Each brick weighs 450 g. How many bricks can the van carry?	Find the number whose square is 1156.
23 827 people attend a concert. 11 821 are men, 5 924 are children. How many women attended the concert?	Approximately $\frac{3}{8}$ of the pizzas bought in a restaurant are pepperoni. In a week about 150 pepperoni pizzas are bought. About how many pizzas did the restaurant sell that week?
Pam has £100 to spend on clothes. She buys three pairs of socks that cost £2.75 each. She buys a dress that costs £19.99 and two pairs of trousers that cost £28.95 each. How much does she have left to spend?	Mark starts his homework at 5:25 pm and works through until 7:10 pm. How long did he work for?
I think of a number, multiply it by seven and subtract 25. I get the answer 73. What was my number?	In a factory there are eight machines making pencils. They run all of the time. Each machine makes 380 pencils an hour. How many pencils does the factory produce in a day?