Multiplication and division cards

Challenge

5 3 1 7 2

Shuffle a set of 0–9 digit cards.

Choose the top five cards.

Use these five digits to make a 3-digit by 2-digit multiplication calculation:

☐☐☐ × ☐☐ =

Investigate different 3-digit by 2-digit calculations using the same digits.

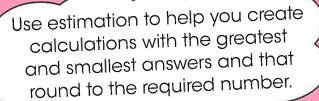Which calculation gives the greatest product?

Which calculation gives the smallest product?

Can you make a calculation that gives you a product that, when rounded to the nearest 1000, rounds to 35 000?

Think about ...

Use estimation to help you create calculations with the greatest and smallest answers and that round to the required number.

For the 'What if?' questions, think about how the inverse relationship between multiplication and division can help.
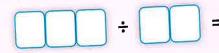
What if?

What if you use the five cards to create a 4-digit divided by a 1-digit calculation?

☐☐☐☐ ÷ ☐ =

Which calculation gives the greatest quotient?

Which calculation gives the smallest quotient?

Can you make a calculation that gives you a quotient that, when rounded to the nearest 100, rounds to 1800?

What if you use the five cards to create a 3-digit divided by a 2-digit calculation?

☐☐☐ ÷ ☐☐ =

Which calculation gives the greatest quotient?

Which calculation gives the smallest quotient?

Can you make a calculation that gives you a quotient that, when rounded to the nearest 10, rounds to 20?