

Multiplication ThHTO \times O, division ThHTO \div O using the most efficient method

Use the most efficient method to calculate ThHTO \times O and ThHTO \div O. Estimate and check the answer to a calculation.



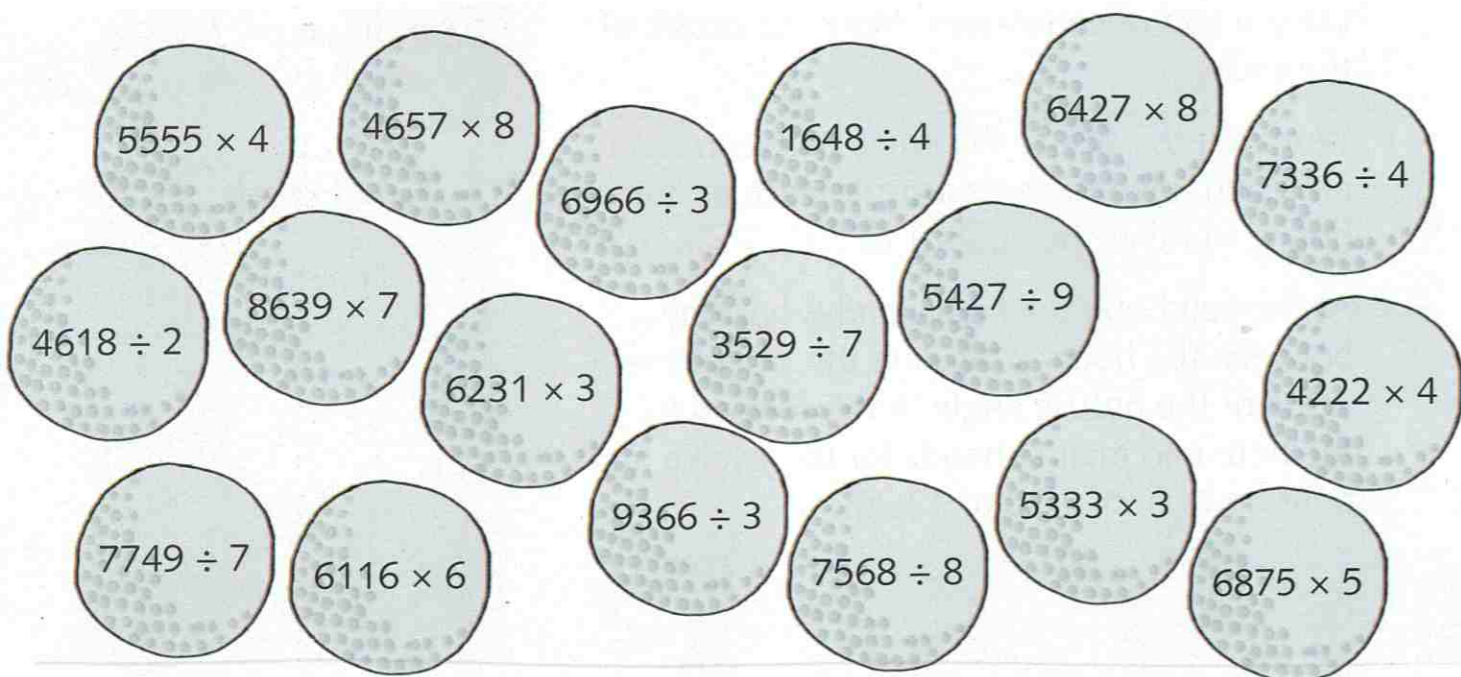
1 Choose four numbers from below. Write five multiples of each number.



2 Choose four numbers from below. Write all the factors of each number.



1 Sort the calculations into two groups, those you would calculate mentally and those where you would use a written method. Write a label for each group: Mental and Written.



2 Work out the answers to each calculation in Question 1. For the calculations that need a written method, use the formal written method of multiplication and division. Remember to estimate the answer first.



Challenge 3

Play this game with a partner.

Take turns to:

- Choose a number from below and write it down. You can only use each number once.
- Choose an operation: either multiplication or division.
- Roll the dice.
- Multiply or divide your chosen number by the dice number.
- Choose the most appropriate method to calculate the answer, mental or written. If you choose a written method write the approximate answer first and then show your working out.

You will need:

- 0–9 dice
- coin

Rule

Heads: Larger answer wins.
Tails: Smaller answer wins.

Once both players have worked out their answer, one player flips the coin to find the winner. The winner of that round scores one point. The first person to score five points is the overall winner.

