Solving word problems (4)

Solve problems and reason mathematically

Challenge 1

Some of the factors are incorrect. Find the correct factors of each number and write them down.

a **30** 2, 3, 7, 4, 6, 10   b **45** 3, 5, 6, 8, 9, 11   c **48** 3, 4, 6, 7, 8, 12

d **20** 2, 4, 6, 5, 3, 10   e **18** 5, 3, 4, 6, 9, 8   f **36** 3, 7, 5, 10, 12, 9

Challenge 2

1 The cook makes 582 sandwiches. She packs them into 6 boxes. How many sandwiches are there in each box?

2 One third of the 582 sandwiches are tuna. How many sandwiches is this?

3 How many sandwiches are not tuna?

4 9 classes go on the picnic. There are 243 cartons of fruit juice to share. How many cartons is this per class?

5 There are 243 children at the school picnic. Each child eats 3 pieces of fruit. How many pieces of fruit did the children eat altogether?

6 There are 469 apples altogether. They are placed into 7 baskets. How many apples are there in each basket?

7 Ice creams cost £2 each. How much does it cost for 243 children to have one ice cream each?

8 The 243 cartons of juice come in 3 different flavours. How many cartons of each flavour are there?

9 There are 729 pieces of fruit altogether. If there are 469 apples, how many other fruits are there?

Challenge 3

Write your own word problems for these calculations. Swap them with a friend to solve.

a 268×4 b $465 \div 5$ c $672 \div 8$ d 354×6 e $300 - 72$