Division

Word Problems

Read

Read the question.
What is the important information?

Understand

Understand the question.
What do you need to find out?

Choose

Choose the correct method of calculation and operation(s).

Solve

Solve the problem.
Make sure you follow the steps.

Answer

Answer the question.
What were you meant to find out?

Check

Check your answer.
Use the inverse to check your working out.

One-Step Division Word Problem:
Exact Answer

A group of 48 children is divided into groups of 6 children.
How many groups will be formed?

Use RUCSAC to solve word problems:

Read — Read the question carefully

Underline — Underline the keywords and numbers

One-Step Division Word Problem:
Exact Answer

A group of 48 children is divided into groups of 6 children.
How many groups will be formed?

Use RUCSAC to solve word problems:

Read

Read the question carefully

Underline

Underline the keywords and numbers

48 ÷ 6 = 8
There will be 8 groups.

One-Step Division Word Problem:
Exact Answer

A group of <u>48 children</u> is divided into <u>groups of 6</u> children.
<u>How many</u> groups will be formed?

Choose — Choose the correct operation(s) and a mental or written method of calculation.

Solve — Solve it! Make sure you follow the steps.

What steps do you need to take 1st?
Then try the calculation 48 ÷ 6=

One-Step Division Word Problem:
Exact Answer

A group of <u>48 children</u> is divided into <u>groups of 6</u> children.
<u>How many</u> groups will be formed?

Answer Check that you've answered the question. What did you need to find out in the first place?

Check Check your answer. Use another method or checking technique (was it close to your estimate?)

48 ÷ 6= 8
8 groups of children will be formed.

How could we check our answer?

One-Step Division Word Problem:
Exact Answer

A group of <u>48 children</u> is divided into <u>groups of 6</u> children.
<u>How many</u> groups will be formed?

Answer Check that you've answered the question. What did you need to find out in the first place?

Check Check your answer. Use another method or checking technique (was it close to your estimate?)
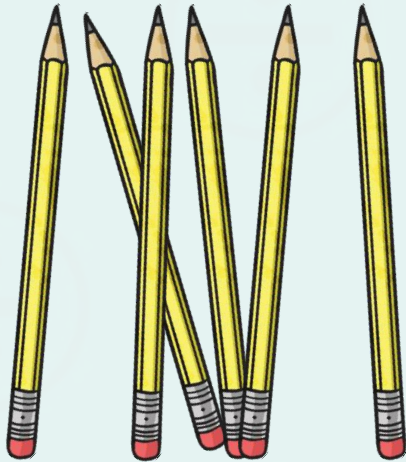
How could we check our answer?

By completing the inverse
8 x 6 = 48

One-Step Division Word Problem:
Remainder Not Used

A pot holds 6 pencils.
How many full pots can be made from 151 pencils?

151 ÷ 6 = 25 r1
The remainder is not used.
25 pots will be filled with 6 pencils.

Use RUCSAC to solve word problems:

Read — Read the question carefully

Underline — Underline the keywords and numbers

Choose — Choose the correct operation(s) and a mental or written method of calculation.

Solve — Solve it! Make sure you follow the steps.

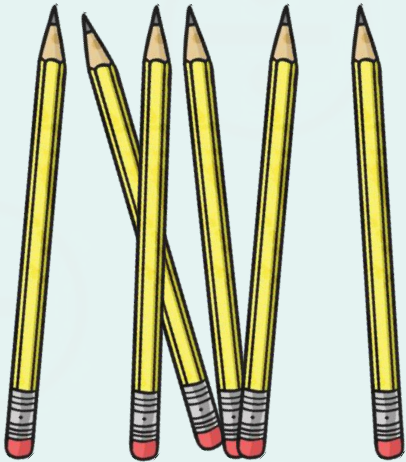**Answer** — Check that you've answered the question. What did you need to find out in the first place?

Check — Check your answer. Use another method or checking technique (was it close to your estimate?)

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One-Step Division Word Problem:
Remainder Not Used

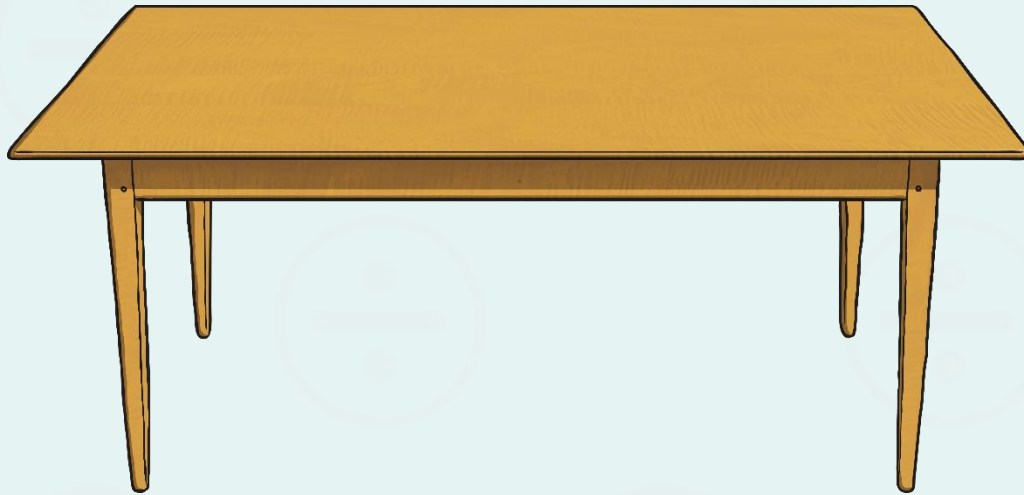A pot holds 6 pencils.
How many full pots can be made from
151 pencils?

Why can we ignore the remainder?

151 ÷ 6 = 25 r1
The remainder is not used.
25 pots will be filled with 6 pencils.

One-Step Division Word Problem:
Remainder Used

A table seats groups of 6 children.
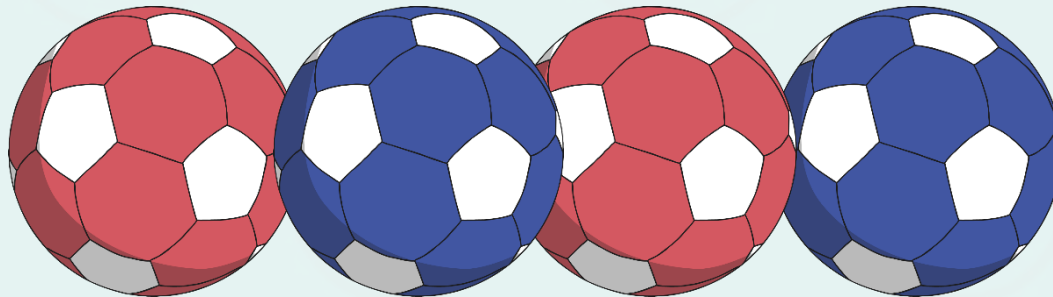How many tables are needed for 345 children?

345 ÷ 6 = 57 r3
The remaining children need a table.
58 tables are needed.

Lets practise a few more

A factory produces 679 balls in a week. How many balls to they produce each day?

679 ÷7=97
They produce 97 balls per day

A new school is opening and they need some help with their ordering. There will be 1248 children in a school. They need to be organised into tables of 6. How many tables does the school need to buy?

1248 ÷ 6 =

Challenge: Can you spot the extra step?

A toy shop has 3 bags of 12 marbles, and 6 bags of 8 marbles. The marbles are combined to make new bags of 15 marbles. How many full bags will be made?

12 × 3 = 36;
8 × 6 = 48;
36 + 48 = 84;
84 ÷ 15 = 5 r9
5 bags of 15 marbles will be made.