

Word Problems



Aim

- I can solve word problems.

Success Criteria

- R – I can read the question carefully.
- U – I understand what the question is asking me to do.
- C – I can choose the correct method.
- S – I can solve the problem using multiplication facts.
- A – I can answer the question with a number sentence.
- C – I check my answer.

Have You Packed Your RUCSAC?



Use **RUCSAC** when calculating mathematical equations

Have You Packed Your RUCSAC?

Read



Read the question.

What is the important information?

Have You Packed Your RUCSAC?

Understand



Understand the question.

What do you need to find out?

Have You Packed Your RUCSAC?

Choose



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

Have You Packed Your RUCSAC?

Solve



Solve the problem.

Make sure you follow the steps.

Have You Packed Your RUCSAC?

Answer



Answer the question.

What were you meant to find out?

Have You Packed Your RUCSAC?

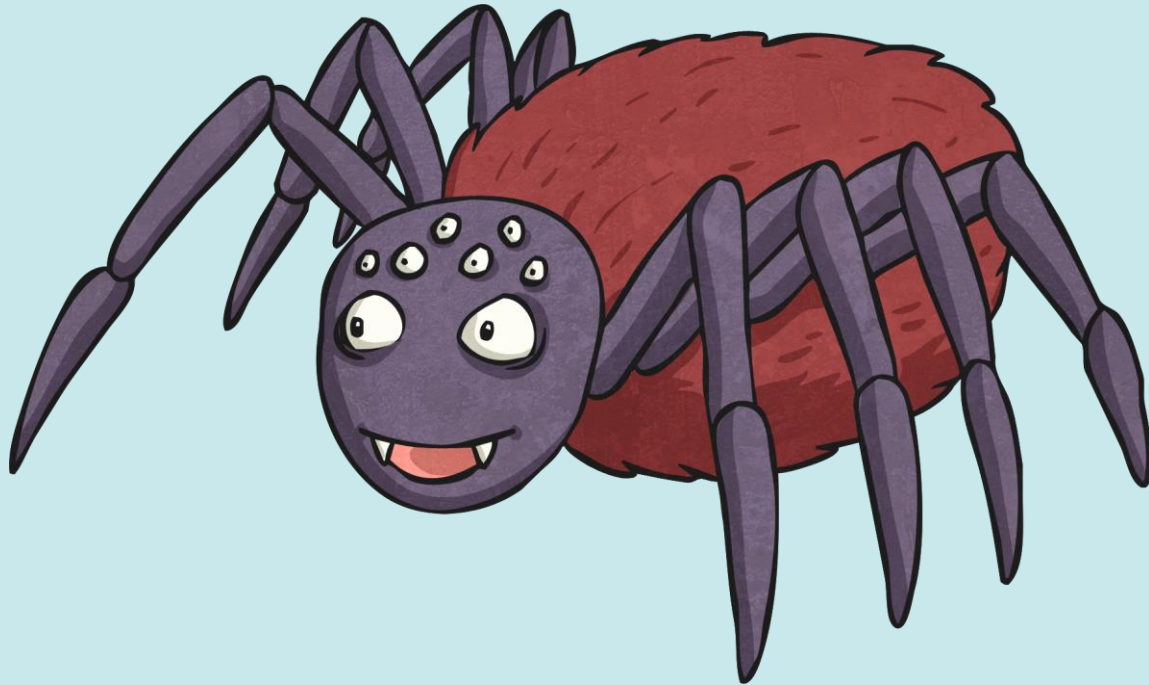
Check



Check your answer.

Use the inverse to check your working out.

Have You Packed Your RUCSAC?



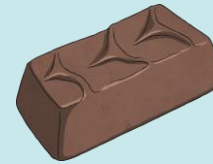
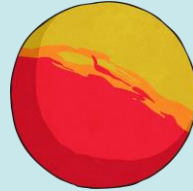
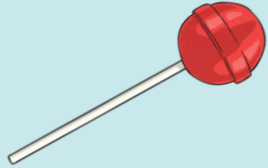
How many legs would 12 spiders have in total?

Have You Packed Your RUCSAC?



Apples cost 15p. How many apples can I buy for £2.50?

Have You Packed Your RUCSAC?



Katy is making party bags. She has 8 children coming to the party. How many of each item can each child have and will there be any left over?

She has:

32 lollipops

18 party blowers

25 mini chocolate bars

40 powerballs

50 balloons

Have You Packed Your RUCSAC?



There are 64 children in Year 3 at Shire Primary School. For their school 'Science Day' the children need to be split into teams of 8.

If the 4 scientists split the groups up evenly between them, how many teams will each scientist have to work with?

How To Check Your Work



Read the question again to make sure you have used the right operation.
Does the answer make sense?

Have you used the correct unit? Should your answer be in £, p, m, cm, ml?

Check your calculation by thinking about related multiplication or division facts.

If you've put $24 \div 3 = 8$, is that correct? Does $8 \times 3 = 24$ or $24 \div 8 = 3$?

Word Problems



Remember Your RUCSAC

I can solve word problems.

Remember to check your work carefully using the RUCSAC checklist.

	Word Problem	Number Sentence
1	How many legs would 6 spiders have altogether?	
2	The coach splits the group of 24 children into 8 equal teams. Each team needs a football between 3 children. How many footballs does each team need?	
3	How many 30p chews can I buy for £1.20? Will I have any money left over?	
4	I buy cartons of apple juice in packs of 4. There are 42 guests coming to my party. How many packs do I need to buy? Will there be any left over?	
5	Carolyn and Mike own a cattery. There are currently 4 cats staying with them. If each cat eats 3 bowls of food a day. How much food will they need to last 3 days?	
6	Lucy sells hair ribbons in 30cm lengths. How many ribbons can she make from a 1m roll of ribbon? Will there be any ribbon left over?	
7	How many legs would 13 dogs have altogether?	
8	There are 36 children in my class. I'd like to take some lollipops in for them because it is my birthday. If lollipops come in packs of 4, how many packs will I need to buy?	
9	How many 300ml glasses of lemonade will I get out of a 1000ml bottle?	
10	If share my 24 stickers fairly with my 3 friends, how many will we get each?	

Choose 1 fact from each of the 3s, 4s and 8s multiplication tables and write a word problem to go with each one. Try to make your problem as interesting as you can.

How Did We Do?



Work with a partner to explain how you solved the problems and see whether you agree on the answers.

Check that your partner used each stage of **RUCSAC**.



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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).



Answer

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



Solve

Solve the problem.
Make sure you follow the steps.



Check

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

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