



# Plant Year 6

## Addition, Subtraction, Multiplication and Division

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# Multistep Word Problems

I can decide which operation to use and explain why.



Complete these multi-step problems by selecting the correct operations to complete the calculations.

- 1) Six pencils cost £1.92. Three pencils and one rubber cost £1.21.  
What is the cost of one rubber?

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- 2) A stack of 40 identical toy boxes is 1000cm tall. Markus takes three boxes off the top of the pile. How tall is the stack now?

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- 3) Mrs Tunnicliffe is making jam to sell at the county fair. Blackberries cost £5.50 per kg. Sugar costs 65p per kg. 15 glass jars costs £5.85. She uses 16kg of blackberries and 10kg of sugar to make 15 jars of jam. Calculate the total cost to make 15 jars of jam.

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- 4) A school orders 12 boxes of dice. Each box contains six bags of dice. Each bag contains 35 dice. How many dice do the school order in total?

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- 5) Mikel thinks of a number. He multiplies the number by 100, divides it by eight then adds 6.50. The answer is 1206.5. What was his starting number?

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- 6) Eight small bricks have the same mass as three large bricks. The mass of one small brick is 1.5kg. What is the mass of one large brick?

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7) A bag of five bananas costs £1. A bag of four grapefruits costs £2.40. How much more does one grapefruit cost than one banana?

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8) Erica chooses a number. She divides it by four then subtracts 11. She then divides this result by two. Her answer is 12.5. What was the number she started with?

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# Multistep Word Problems Answers

Question	Answer
1.	Six pencils cost £1.92. Three pencils and one rubber cost £1.21. What is the cost of one rubber?
	<b>25p or £0.25</b>
2.	A stack of 40 identical toy boxes is 1000cm tall. Markus takes three boxes off the top of the pile. How tall is the stack now?
	<b>925cm tall (Each box is 25cm tall. <math>3 \times 25\text{cm} = 75\text{cm}</math>. <math>1000\text{cm} - 75\text{cm} = 925\text{cm}</math>).</b>
3.	Mrs Tunnicliffe is making jam to sell at the county fair. Blackberries cost £5.50 per kg. Sugar costs 65p per kg. 15 glass jars costs £5.85. She uses 16kg of blackberries and 10kg of sugar to make 15 jars of jam. Calculate the total cost to make 15 jars of jam.
	<b><math>(16 \times 5.50) + (0.65 \times 10) + 5.85 = £100.35</math></b>
4.	A school orders 12 boxes of dice. Each box contains six bags of dice. Each bag contains 35 dice. How many dice do the school order in total?
	<b>2520 dice</b>
5.	Mikel thinks of a number. He multiplies the number by 100, divides it by eight then adds 6.50. The answer is 1206.5. What was his starting number?
	<b>96</b>
6.	Eight small bricks have the same mass as three large bricks. The mass of one small brick is 1.5kg. What is the mass of one large brick?
	<b>4kg</b>
7.	A bag of five bananas costs £1. A bag of four grapefruits costs £2.40. How much more does one grapefruit cost than one banana?
	<b><math>(1 \div 5 = 0.20, 2.40 \div 4 = 0.60, 0.60 - 0.20 =)</math> 40p or £0.40</b>
8.	Erica chooses a number. She divides it by four then subtracts 11. She then divides this result by two. Her answer is 12.5. What was the number she started with?
	<b>144</b>