

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?

- 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?

- 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.

- 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?

- 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?

- 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?



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?

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?

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?
25p or £0.25	
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?
925cm tall (Each box is 25cm tall. $3 \times 25\text{cm} = 75\text{cm}$. $1000\text{cm} - 75\text{cm} = 925\text{cm}$).	
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.
$(16 \times 5.50) + (0.65 \times 10) + 5.85 = \text{£}100.35$	
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?
2520 dice	
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?
96	
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?
4kg	
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?
$(1 \div 5 = 0.20, 2.40 \div 4 = 0.60, 0.60 - 0.20 =)$ 40p or £0.40	
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?
144	