

Name: Class:

Multi-step word problems: identify reasonable answers

- a. Lucy has a collection of coins. She placed her coins into stacks. Each stack had ten coins. She has 15 stacks already. She estimated that she has about one hundred and fifty coins altogether. Does that sound about right?

 No, the estimate is too low Yes No, the estimate is too high

- b. Allan owns a jewelry shop in town. He sells engagement rings for \$5 855 and wedding bands for \$1 975. Right now, he has orders for 3 engagement rings and 5 wedding bands. He estimates that, delivering all the rings will give him a total amount of \$25 000. Does that sound like a good estimate?

 No, the estimate is too low Yes No, the estimate is too high

- c. Mathew works in a local car wash in his home town. On Monday, they washed about 15 cars. On Tuesday, they washed 5 more cars than on Monday. On Friday, they washed 10 fewer cars than on Tuesday. Mathew calculated that they washed about 10 cars on Friday. Does that sound about right?

 No, the estimate is too low Yes No, the estimate is too high

- d. Johann works in a local fast food in his home town. On Thursday, they served about 50 meals. On Friday, they served 15 more meals than on Thursday. On Saturday, they served 10 fewer meals than on Friday. Johann calculated that they served about 60 meals on Friday. Does that sound about right?

 No, the estimate is too low Yes No, the estimate is too high

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Multi-step word problems: identify reasonable answers

a. Lucy has a collection of coins. She placed her coins into stacks. Each stack had ten coins. She has 15 stacks already. She estimated that she has about one hundred and fifty coins altogether. Does that sound about right?

No, the estimate is too low	Yes	No, the estimate is too high
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The number of stacks she has = 15.
 The number of coins in each stack = 10.
 Total number of coins = $15 \times 10 = 150$ stacks of coins.
 Yes, her estimate is correct.

b. Allan owns a jewelry shop in town. He sells engagement rings for \$5 855 and wedding bands for \$1 975. Right now, he has orders for 3 engagement rings and 5 wedding bands. He estimates that, delivering all the rings will give him a total amount of \$25 000. Does that sound like a good estimate?

No, the estimate is too low	Yes	No, the estimate is too high
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1 engagement ring cost \$5 855
 3 engagement rings will cost $\$5\,855 \times 3 = \$17\,565$.
 1 wedding band cost \$1 975.
 5 wedding bands will cost $\$1\,975 \times 5 = \$9\,875$.
 Therefore, total cost of all rings = $\$17\,565 + \$9\,875 = 27\,440$.
 No, his estimate is too high.

c. Mathew works in a local car wash in his home town. On Monday they washed about 15 cars. On Tuesday, they washed 5 more cars than on Monday. On Friday, they washed 10 fewer cars than on Tuesday. Mathew calculated that they washed about 10 cars on Friday. Does that sound about right?

No, the estimate is too low	Yes	No, the estimate is too high
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The number of cars washed on Monday = 15 cars.
 The number of cars washed on Tuesday = $15 \text{ cars} + 5 \text{ cars} = 20 \text{ cars}$.
 The number of cars washed on Friday = $20 \text{ cars} - 10 \text{ cars} = 10 \text{ cars}$.
 Yes, Mathew's calculation was correct.