Multiplication With Tape Diagram

Name:

Solve each problem using a tape diagram.

1) A store sold 15 C batteries in a day. They sold 3 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

2) In one day a restaurant used 22 knives. They also used 4 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

3) On week 1 a football player jogged for 41 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

4) A store sold 33 C batteries in a day. They sold 9 as many AAA batteries as C batteries and 9 times as many AA as AAA batteries. How many batteries did they sell total?

5) A school principal was looking over grades. In math 32 students scored a C. 4 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

Math

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Solve each problem using a tape diagram.

1) A store sold 15 C batteries in a day. They sold 3 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

C [15]

AAA [| |]

AA [| | | | | | | |]

2) In one day a restaurant used 22 knives. They also used 4 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

knives [22]

forks [| | |]

spoons [| | | | | | |]

3) On week 1 a football player jogged for 41 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1 [41]

Week 2 [|||||]

Week 3 [||||||||||||||||||||||||||||||||||||||||||||||||]

4) A store sold 33 C batteries in a day. They sold 9 as many AAA batteries as C batteries and 9 times as many AA as AAA batteries. How many batteries did they sell total?

C [33]

AAA [|||||||||]

AA [|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||]

5) A school principal was looking over grades. In math 32 students scored a C. 4 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

C [32]

B [| | |]

A [| | | | | | |]

Answers

1. **195**

2. **286**

3. **2255**

4. **3003**

5. **416**