



Solve each problem using a tape diagram.

**Answers**

- 1) Stephanie and her friends were collecting cans to recycle. Stephanie collected 40. Her friend Jessica collected 5 times as many and her other friend Sarah collected 8 times as many. How many cans did they collect total?

Stephanie 

40
----

Jessica 



Sarah 





1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

- 2) A store sold 26 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?

C 

26
----

AAA 



AA 





- 3) While building a house, a contractor spent \$27 on outlets. He spent 2 times that amount on fixtures and 8 times the amount on sheet rock. How much did he spend total?

outlets 

27
----

fixtures 



sheet rock 





- 4) An ice cream shop sold 22 waffle cones. They sold 2 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle 

22
----

Sugar 



Wafer 





- 5) A malt shop sold 15 vanilla shakes. They sold 3 times as many strawberry shakes and 6 times as many chocolate shakes. How many shakes did they sell total?

vanilla 

15
----

strawberry 



chocolate



Solve each problem using a tape diagram.

**Answers**

- 1) Stephanie and her friends were collecting cans to recycle. Stephanie collected 40. Her friend Jessica collected 5 times as many and her other friend Sarah collected 8 times as many. How many cans did they collect total?

Stephanie	<input type="text" value="40"/>								
Jessica	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
Sarah	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1. **560**2. **182**3. **297**4. **198**5. **150**

- 2) A store sold 26 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?

C	<input type="text" value="26"/>								
AAA	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
AA	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 3) While building a house, a contractor spent \$27 on outlets. He spent 2 times that amount on fixtures and 8 times the amount on sheet rock. How much did he spend total?

outlets	<input type="text" value="27"/>								
fixtures	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
sheet rock	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 4) An ice cream shop sold 22 waffle cones. They sold 2 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle	<input type="text" value="22"/>								
Sugar	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wafer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 5) A malt shop sold 15 vanilla shakes. They sold 3 times as many strawberry shakes and 6 times as many chocolate shakes. How many shakes did they sell total?

vanilla	<input type="text" value="15"/>								
strawberry	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
chocolate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>