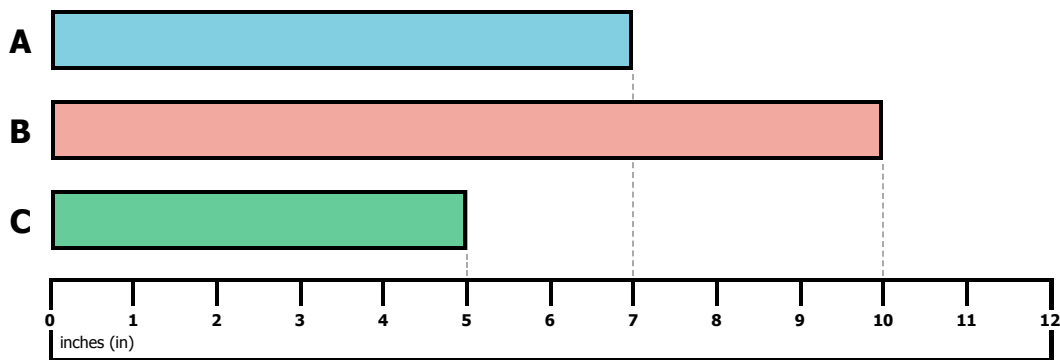


1.

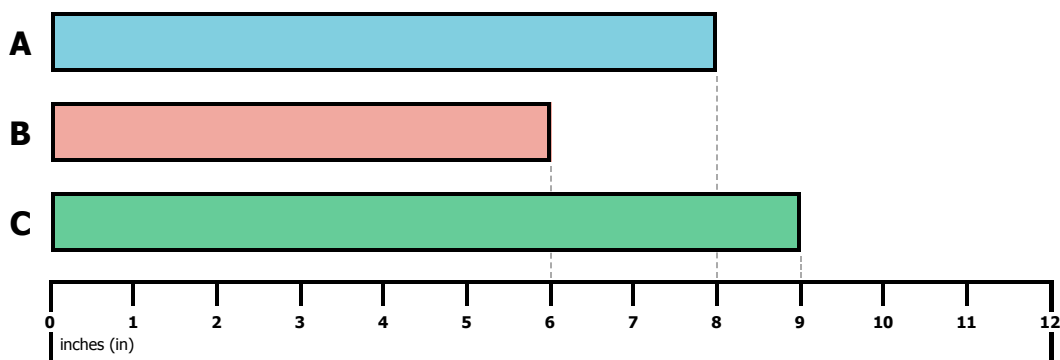


The length of **A** is _____ in **A** is _____ in shorter than **B**

The length of **B** is _____ in **A** is _____ in longer than **C**

The length of **C** is _____ in **B** is _____ in longer than **C**

2.

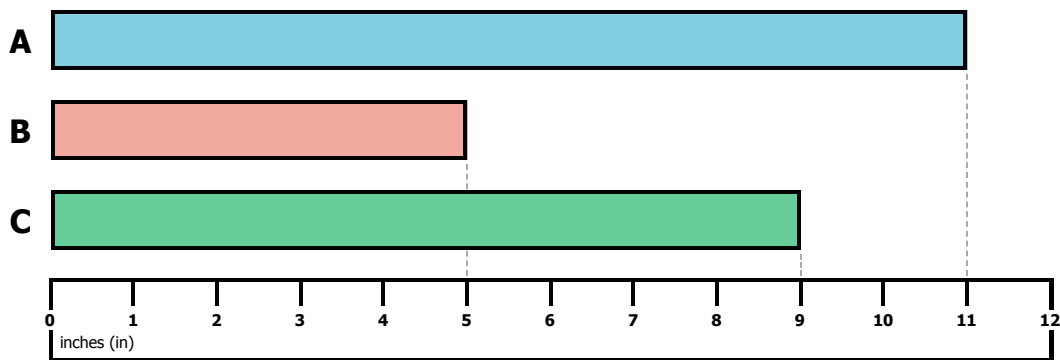


The length of **A** is _____ in **A** is _____ in longer than **B**

The length of **B** is _____ in **A** is _____ in shorter than **C**

The length of **C** is _____ in **B** is _____ in shorter than **C**

1.

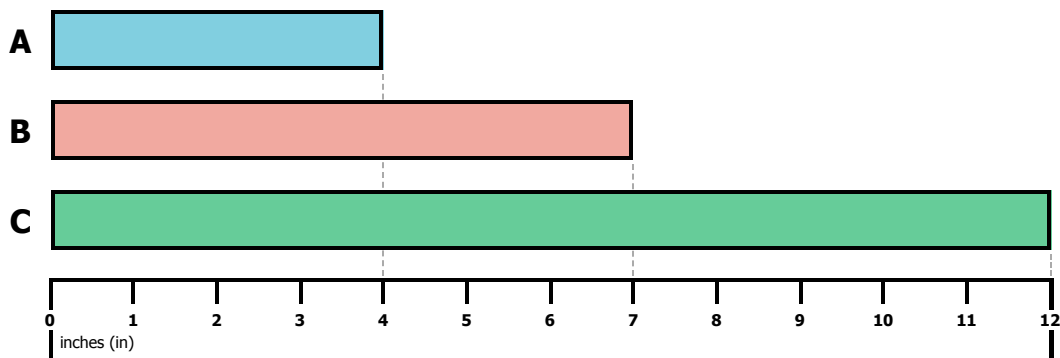


The length of **A** is _____ in **A** is _____ in longer than **B**

The length of **B** is _____ in **A** is _____ in longer than **C**

The length of **C** is _____ in **B** is _____ in shorter than **C**

2.

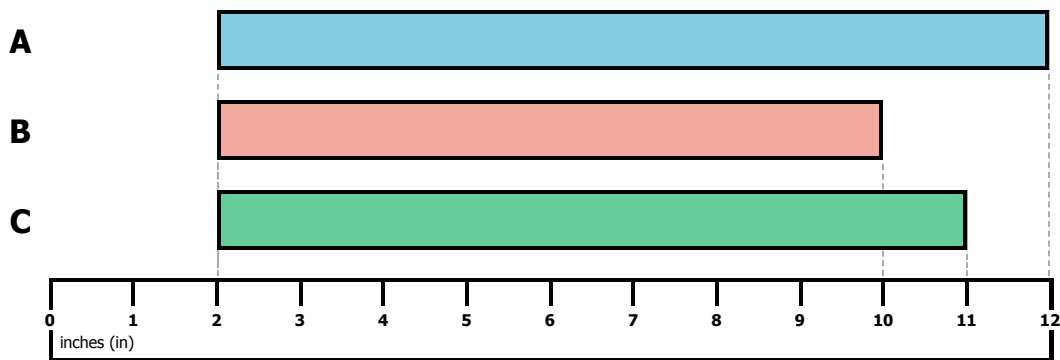


The length of **A** is _____ in **A** is _____ in shorter than **B**

The length of **B** is _____ in **A** is _____ in shorter than **C**

The length of **C** is _____ in **B** is _____ in shorter than **C**

1.

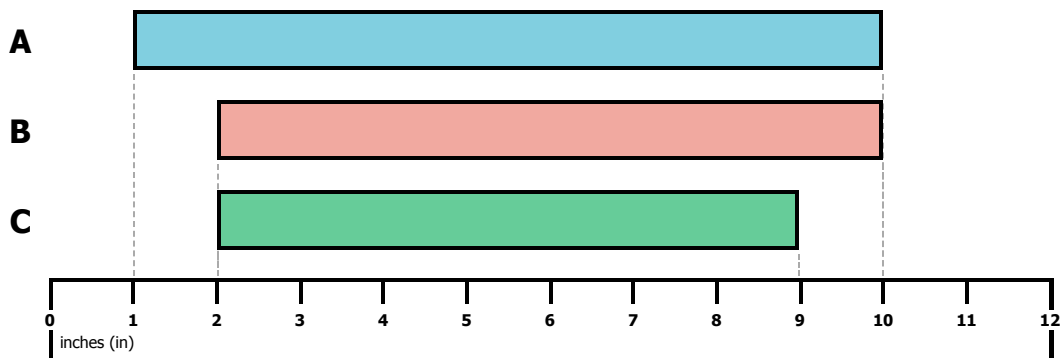


The length of **A** is _____ in **A** is _____ in longer than **B**

The length of **B** is _____ in **A** is _____ in longer than **C**

The length of **C** is _____ in **B** is _____ in shorter than **C**

2.

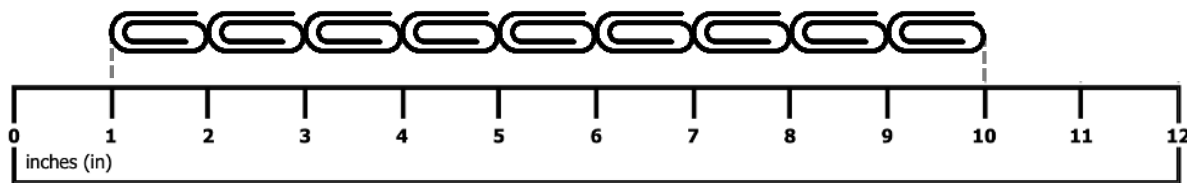


The length of **A** is _____ in **A** is _____ in longer than **B**

The length of **B** is _____ in **A** is _____ in longer than **C**

The length of **C** is _____ in **B** is _____ in longer than **C**

Penny uses a ruler to measure the length of 9 paper clips, as shown below.



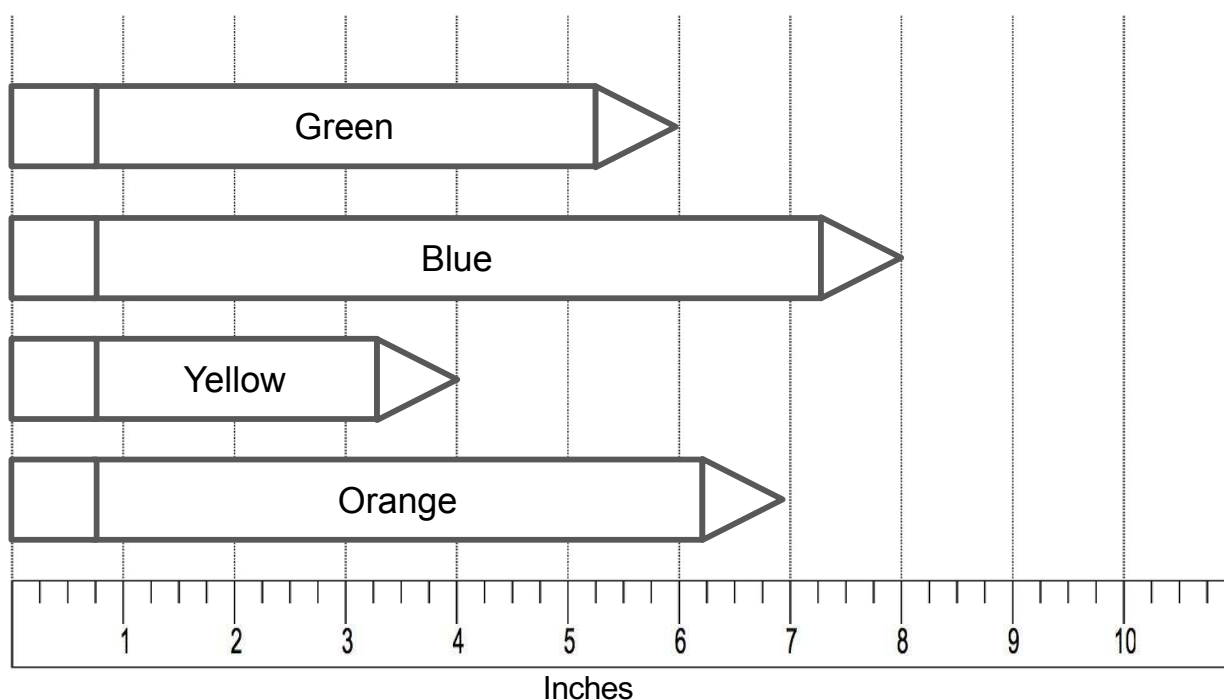
To find their total length, Penny counts the marks on the ruler, starting at the mark above the digit “1.” She counts 10 marks, so Penny says the total length of the paper clips is 10 inches.

a. Is Penny correct? Explain if you agree or disagree with her strategy.

b. Find the total length of the paper clips without counting. Show your thinking by writing and solving a subtraction or addition equation.

MEASURE UP - D

Use the diagram at the top to answer the questions below.



1. How long is the blue pencil?

2. How much longer is the orange pencil than the yellow pencil?

3. How long are the green and yellow pencils when they are placed end to end?
