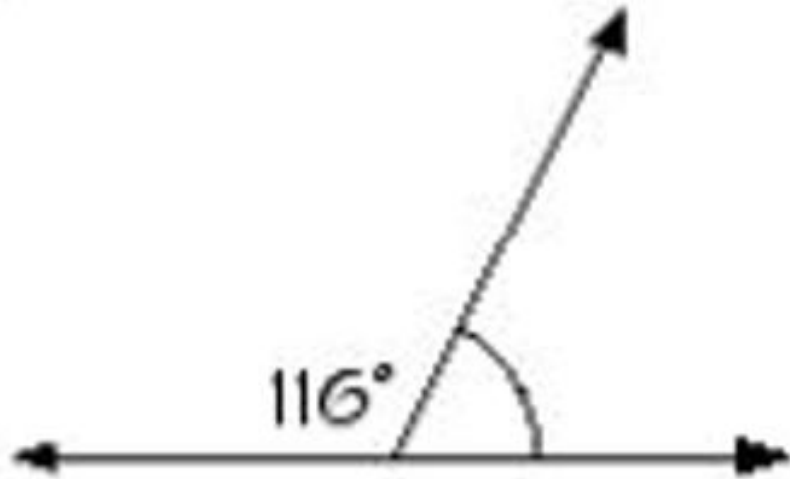


ROCKET SOLUTION

How do you put a baby astronaut to sleep?

Adjacent angles on the same side of the line with a common vertex are Supplementary

#1



Write Formula

$$A + B = 180$$

Substitute in

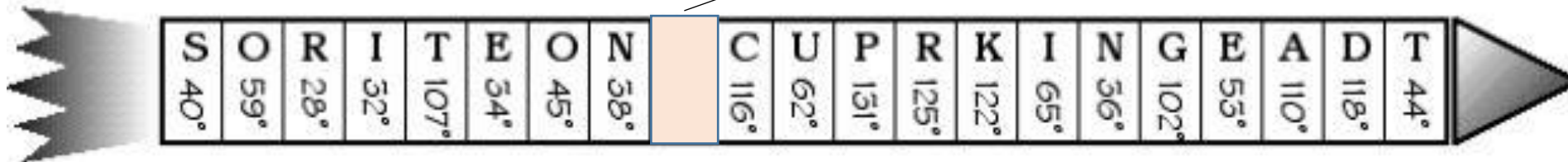
$$116 + B = 180$$

Solve for "B"

$$116 + B = 180$$

$$-116 \quad = -116$$

$$B = 64$$



Adjacent angles on the same side of the line with a common vertex are Supplementary

Write Formula

$$A + B = 180$$

Substitute in

$$78 + B = 180$$

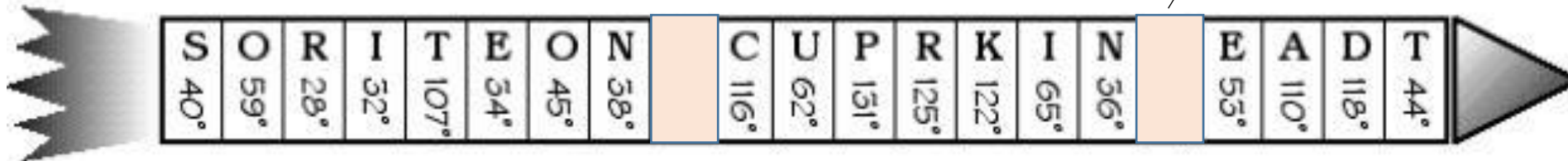
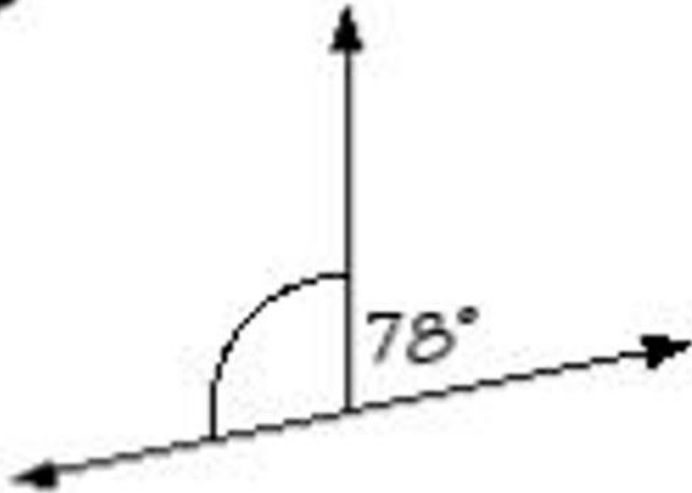
Solve for "B"

$$78 + B = 180$$

$$\begin{array}{r} -78 \quad = \quad -78 \\ \hline \end{array}$$

$$B = 102$$

#2



Adjacent angles on the same side of the line with a common vertex are Supplementary

Write Formula

$$A + B = 180$$

Substitute in

$$49 + B = 180$$

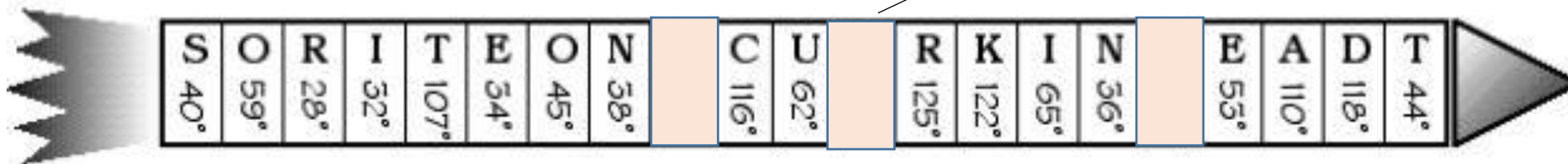
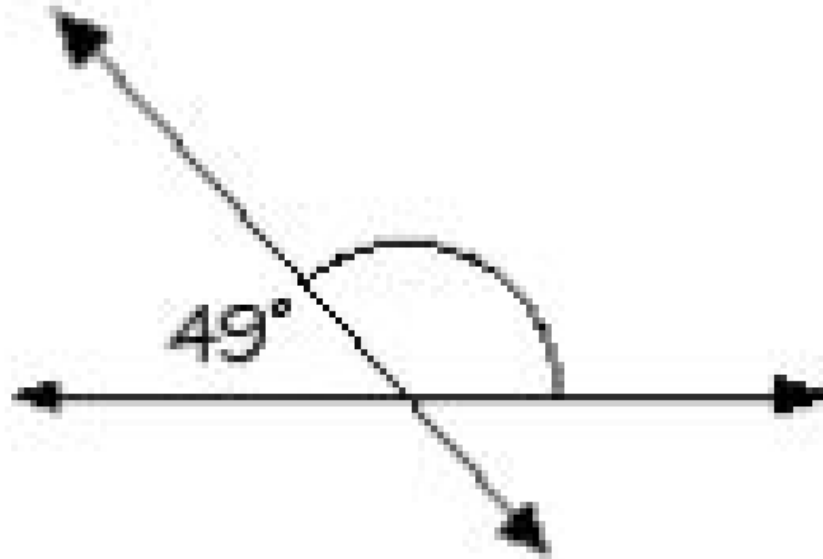
Solve for "B"

$$49 + B = 180$$

$$\begin{array}{r} -49 \\ \hline \end{array} = -49$$

$$B = 131$$

#3

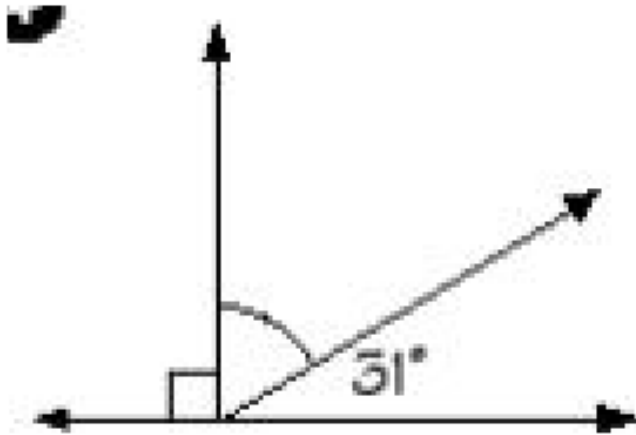


Adjacent angles on the same side of the line with a common vertex add up to 180.

A Right Angle is 90° Degrees.

Two Adjacent Angles that add up to 90° Degrees are Complementary.

#4



Write Formula

$$A + B = 90$$

Substitute in

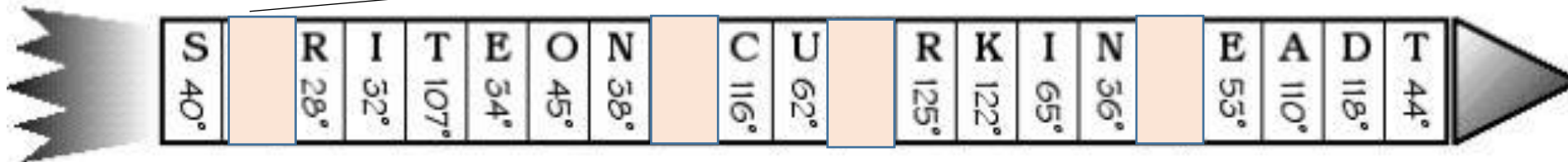
$$31 + B = 90$$

Solve for "B"

$$31 + B = 90$$

$$\begin{array}{r} -31 \\ \hline \end{array} = -31$$

$$B = 59$$

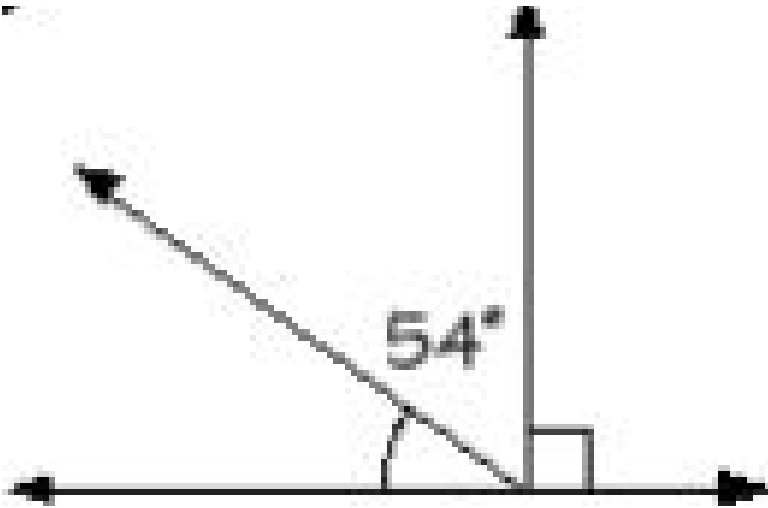


Adjacent angles on the same side of the line with a common vertex add up to 180.

A Right Angle is 90° Degrees.

Two Adjacent Angles that add up to 90° Degrees are Complementary.

#5



Write Formula

$$A + B = 90$$

Substitute in

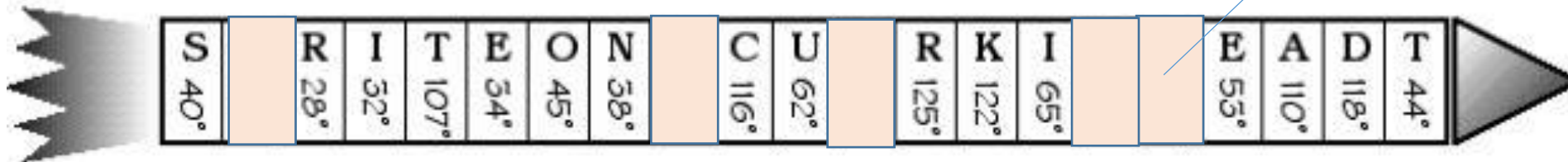
$$54 + B = 90$$

Solve for "B"

$$54 + B = 90$$

$$\begin{array}{r} -54 \\ \hline \end{array} = -54$$

$$B = 36$$

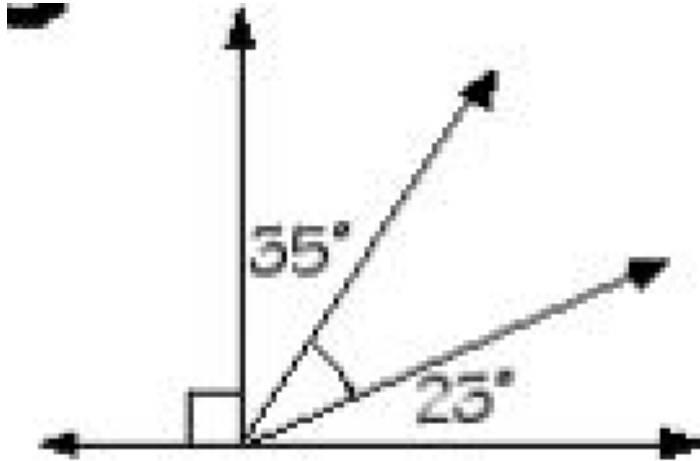


Adjacent angles on the same side of the line with a common vertex add up to 180.

A Right Angle is 90° Degrees.

Angles A, B and C must add up to 90° .

#6



Write Formula

$$A + B + C = 90$$

Substitute in

$$35 + 23 + C = 90$$

Combine Values

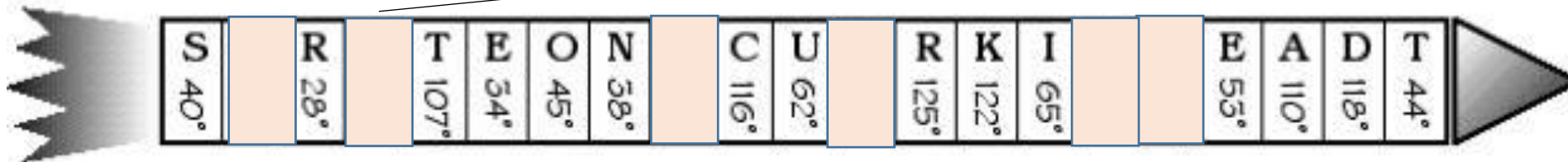
$$58 + C = 90$$

Solve for "C"

$$58 + C = 90$$

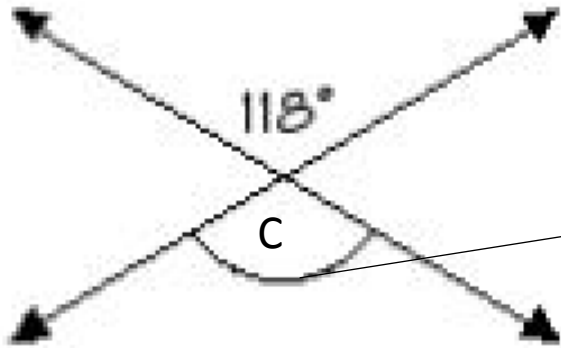
$$\underline{-58 \quad = \quad -58}$$

$$C = 32$$



Vertical Angles are Equal!

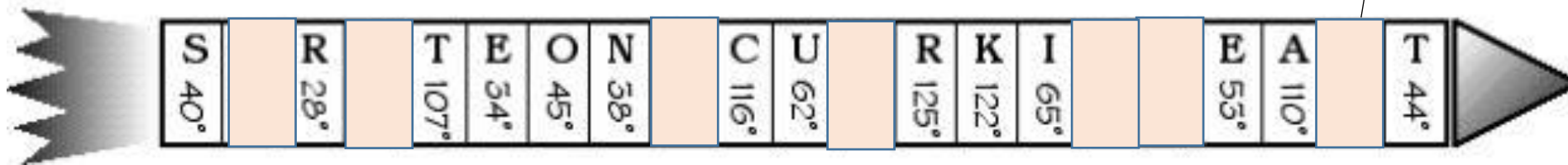
#7



$$C = 118$$

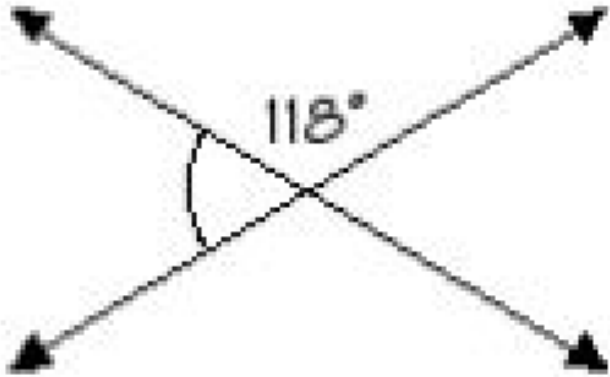
IF $A + B = 180$ Then $B + C$ must also = 180

$C = 118$: OPPOSITE Angles formed by two lines are EQUAL and are called VERTICAL ANGLES.



Adjacent angles on the same side of the line with a common vertex add up to 180.
Two angles that add to 180° Degrees are Supplementary.

#8



Write Formula

$$A + B = 180$$

Substitute in

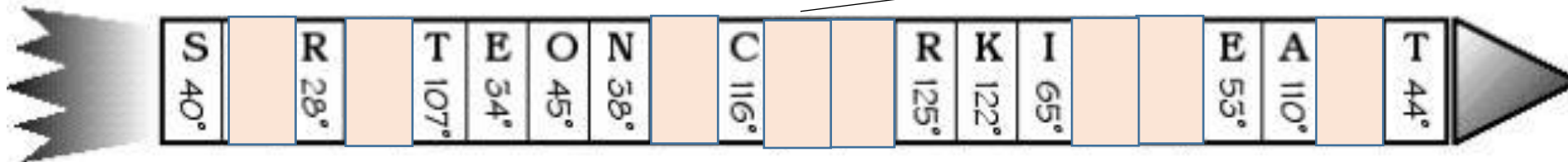
$$118 + B = 180$$

Solve for "B"

$$118 + B = 180$$

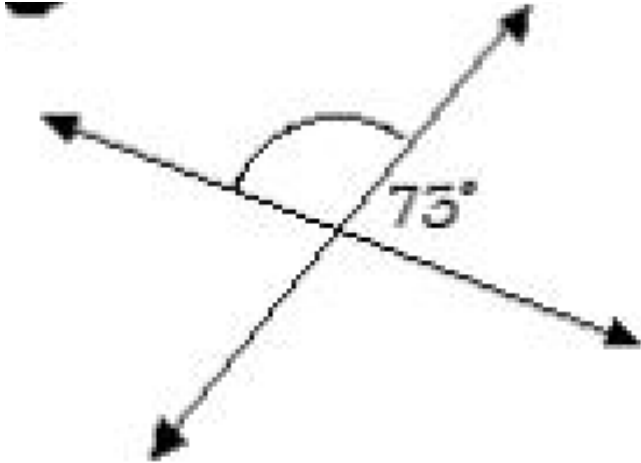
$$\begin{array}{r} -118 \\ \hline \end{array} = -118$$

$$B = 62$$



Adjacent angles on the same side of the line with a common vertex add up to 180.
Two angles that add to 180° Degrees are Supplementary.

#9



Write Formula

$$A + B = 180$$

Substitute in

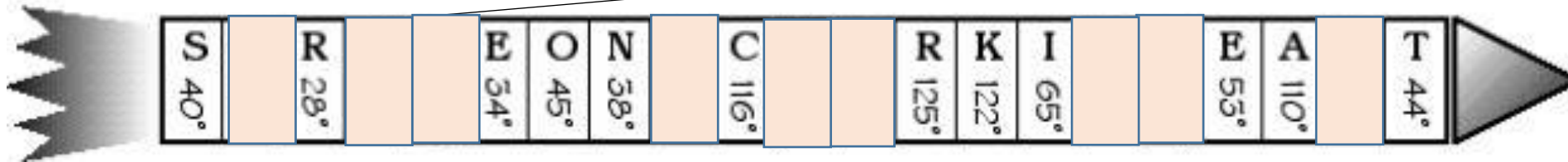
$$73 + B = 180$$

Solve for "B"

$$73 + B = 180$$

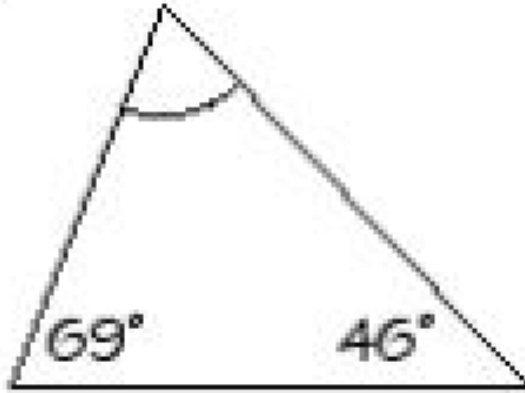
$$\begin{array}{r} -73 \\ \hline \end{array} = -73$$

$$B = 107$$



The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#10



Write Formula

$$A + B + C = 180$$

Substitute in

$$69 + 46 + C = 180$$

Combine Terms

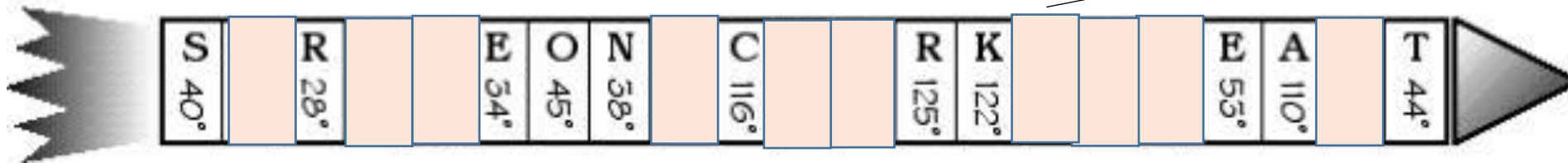
$$115 + C = 180$$

Solve for "C"

$$115 + C = 180$$

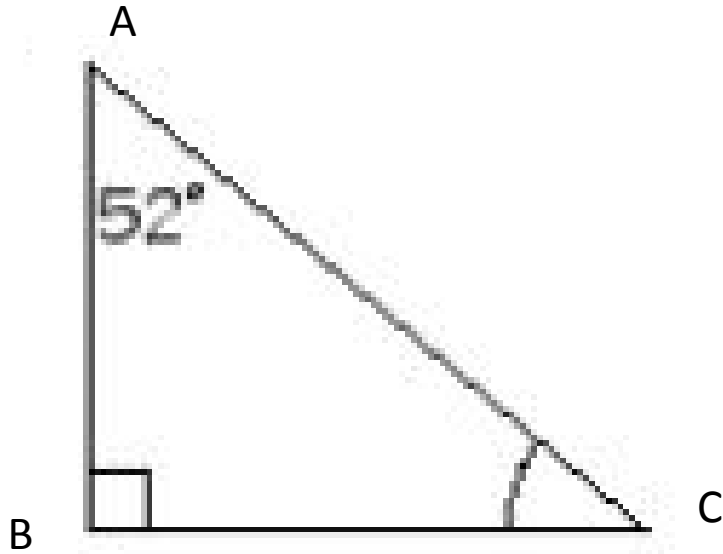
$$\underline{-115 \quad = -115}$$

$$C = 65$$



The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#11



Write Formula

$$A + B + C = 180$$

Substitute in

$$52 + 90 + C = 180$$

Combine Terms

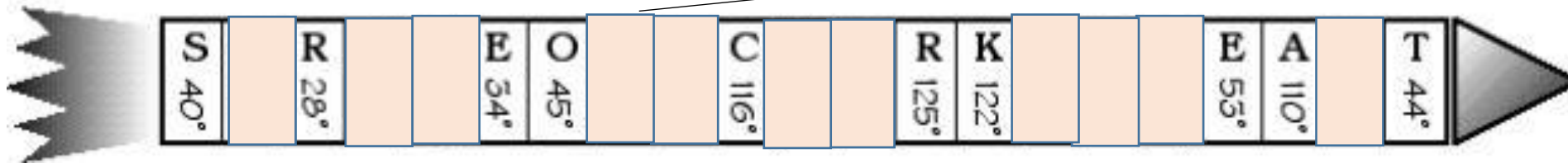
$$142 + C = 180$$

Solve for "C"

$$142 + C = 180$$

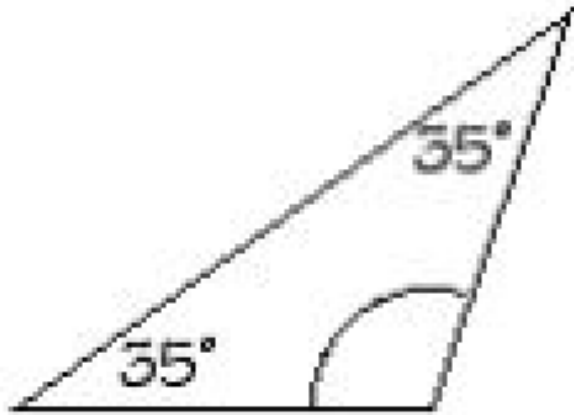
$$\underline{-142} \quad = \quad \underline{-142}$$

$$C = 38$$



The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#12.



Write Formula

$$A + B + C = 180$$

Substitute in

$$35 + 35 + C = 180$$

Combine Terms

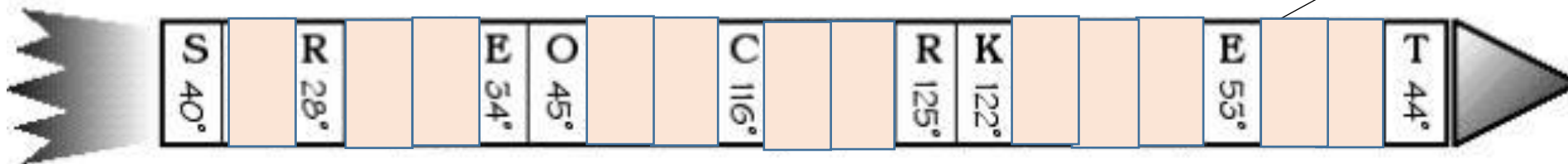
$$70 + C = 180$$

Solve for "C"

$$70 + C = 180$$

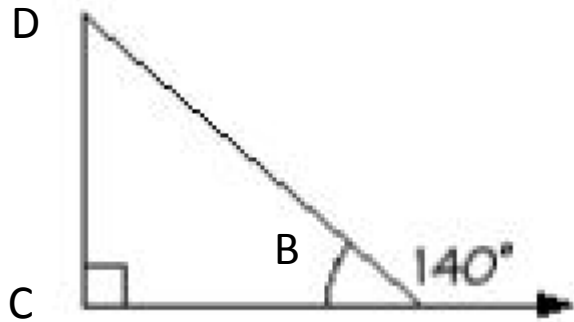
$$\begin{array}{r} -70 \\ \hline \end{array} = -70$$

$$C = 110$$



Angles on the same side of a Line are 180 Degrees
 The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#13



They did not ask for the 3rd angle of the Triangle,
 But : $B + C + D = 180$
 SO: $40 + 90 + D = 180$
 Therefore "D" must be 50

Write Formula

$$A + B = 180$$

Substitute in

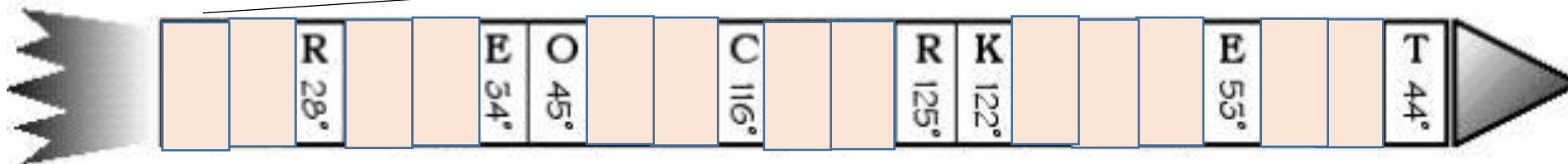
$$140 + B = 180$$

Solve for "B"

$$140 + B = 180$$

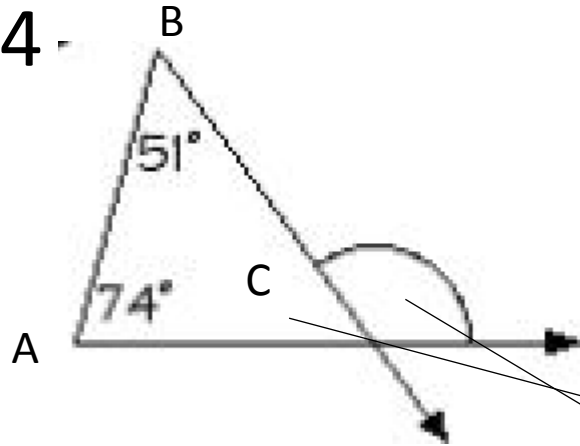
$$\underline{-140} \quad = \quad \underline{-140}$$

$$B = 40$$



Angles on the same side of a Line are 180 Degrees
 The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#14



Write Formula

$$A + B + C = 180$$

Substitute in

$$74 + 51 + C = 180$$

Combine Values

$$125 + C = 180$$

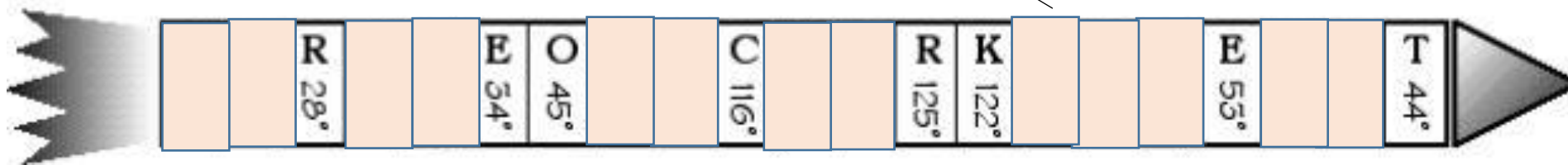
Solve for "C"

$$125 + C = 180$$

$$\underline{-125 \quad = -125}$$

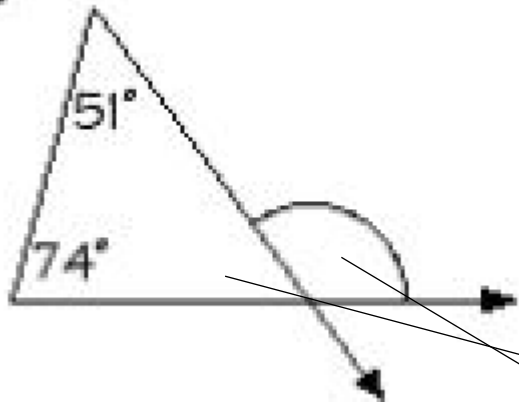
$$C = 55$$

Since "C" = 55, and angles on the Same side of the line are Supplementary,
 The "Missing angle" is: $55 + Q = 180$
 SO: $\therefore Q = 125$



Angles on the same side of a Line are 180 Degrees
 The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#14



Since "C" = 55, and angles on the same side of the line are Supplementary,
 The "Missing angle" is: $55 + Q = 180$
 SO: $Q = 125$

Write Formula

$$A + B + C = 180$$

Substitute in

$$74 + 51 + C = 180$$

Combine Values

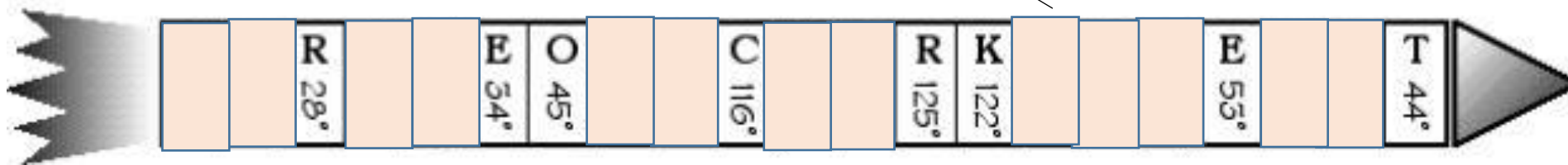
$$125 + C = 180$$

Solve for "C"

$$125 + C = 180$$

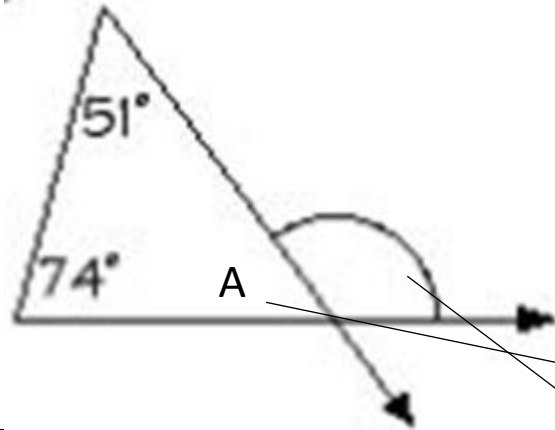
$$\underline{-125 \quad = -125}$$

$$C = 55$$



The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#15



Since "A" = 55, and angles on the Same side of the line are Supplementary,
The "Missing angle" is: $55 + Q = 180$
SO: $Q = 125$

Write Formula

$$A + B + C = 180$$

Substitute in

$$A + 51 + 74 = 180$$

Combine Values

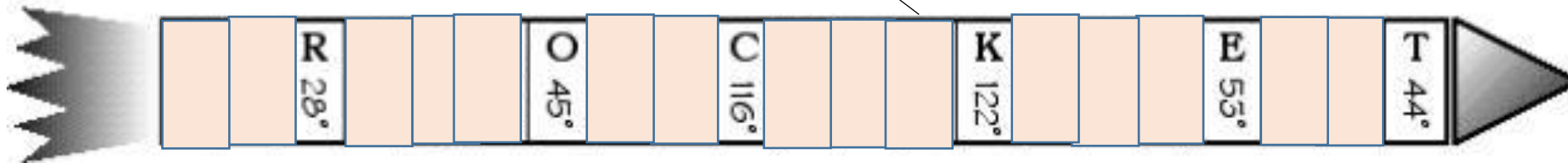
$$A + 125 = 180$$

Solve for "C"

$$A + 125 = 180$$

$$-125 = -125$$

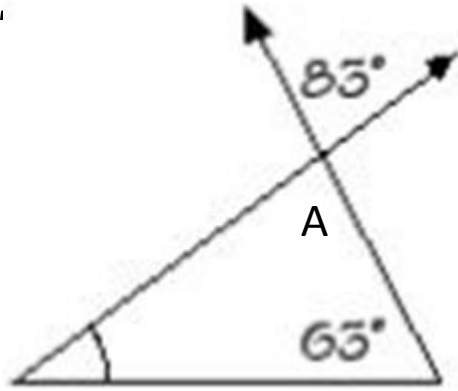
$$A = 55$$



Vertical Angles are Equal: SO: A = 83

The INTERIOR ANGLES OF A TRIANGLE add up to 180.

#16



Since "C" = 55, and angles on the same side of the line are supplementary,
The "Missing angle" is: $55 + Q = 180$
SO: $Q = 125$

Write Formula

$$A + B + C = 180$$

Substitute in

$$83 + 63 + C = 180$$

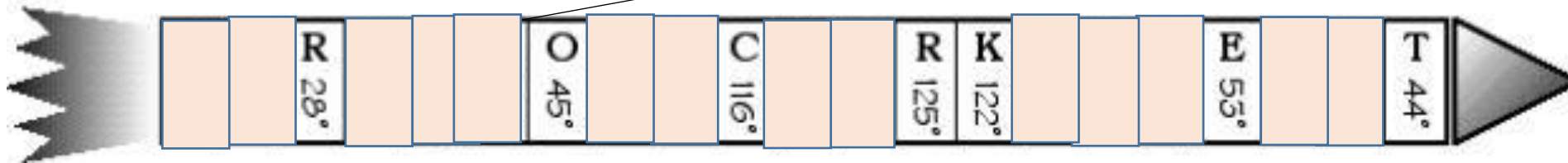
Combine Values $146 + C = 180$

Solve for "C"

$$146 + C = 180$$

$$\underline{-146} \quad = \quad \underline{-146}$$

$$C = 34$$

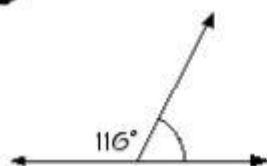


How Do You Put a Baby Astronaut to Sleep?

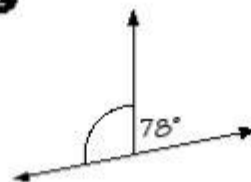
Using the given angle measures, find the angle measure indicated for each figure. Cross out the letter next to each correct answer. The answer to the title question will remain.



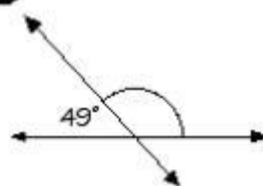
1



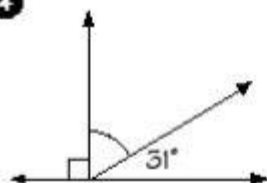
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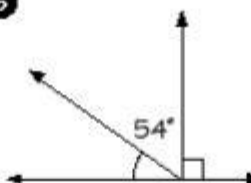
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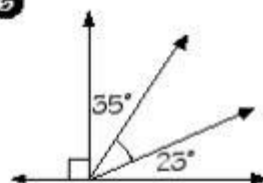
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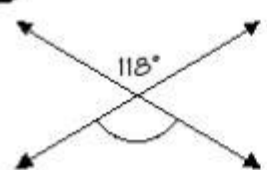
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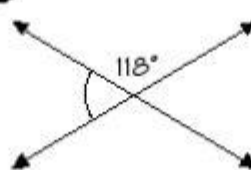
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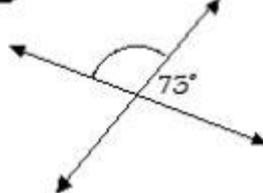
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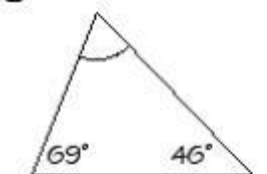
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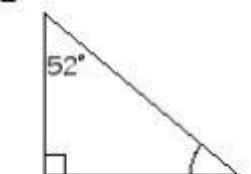
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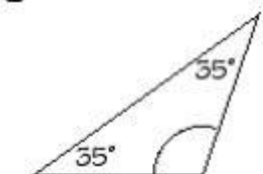
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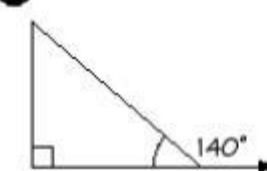
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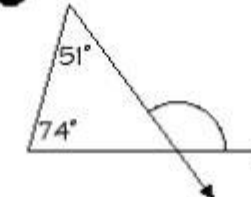
12



13



14



15

