

CODE RED – DO NOW

Complete Problems #1-4 **G.1a**

- Write the converse of the following statement:
"If the sky is blue, then there is no rain."
- What is the inverse of: "If my team wins, then I am happy."
- Write the contrapositive of the following statement:
"If my phone dies, then I will charge it."
- Give a counterexample: All songs are happy. _____

Intro to Triangles

SOL G.5ab

Learning Target: By the end of class today, I will be able to determine the relationships within triangles and find the missing third angle measure of a triangle, as evidenced by scoring at least 75% on a class exit ticket.

Essential Questions: What is the sum of the three measures of a triangle?

Today's Agenda

- ✓ DO NOW
- ✓ Triangle Facts
- ✓ Find the Missing Angle
- ✓ KAHOOT!
- ✓ Exit Ticket

CODE YELLOW

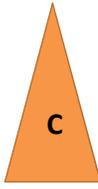
Which shape is a triangle?



A



B



C



D

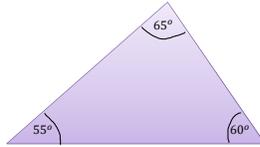
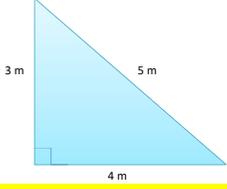


E

CODE YELLOW

Triangle Facts

- Triangles have three angles and three sides.
Side lengths go on the outside and angle measures go on the inside.

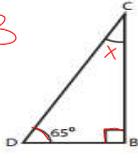



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Triangle Facts

- The three angles of a triangle add up to **180°**

$\triangle CDB$



$\angle C = 25^\circ$

$$65 + 90 + x = 180$$

$$155 + x = 180$$

$$\underline{-155}$$

$$x = 25$$

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Try these! Find the measure of the missing angle:

$110 + 35 + x = 180$
 $\angle Q = 35$

$\angle W = 50$

$\angle U = 50$

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Solve for x and find the measure of the missing angle:

$3(25) - 25 = 50$

$60 + 70 + 3x - 25 = 180$
 $105 + 3x = 180$
 -105
 $3x = 75$
 $x = 25$

$x = 25 ; \angle K = 50$

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What angle is missing?

Find a partner and use the notecards to find the measure of the third angle in your triangle.

Then, do it again with someone else!

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Solve for x and find the measure of each angle:

$3x + 6 + 4x - 4 + 6x + 9 = 180$
 $x = 13$
 $\angle A = 45$
 $\angle B = 48$
 $\angle C = 87$

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KAHOOT!

#1-6

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Triangle Facts

3. The measure of an exterior angle of a triangle is equal to the sum of the other two interior angles.

$131 = x + 78$
 -78
 $53 = x$

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CODE YELLOW

①

$x = 18 + 42$
 $x = 60$

②

$$\begin{array}{r} 105 = x + 72 \\ -72 \quad -72 \\ \hline 33 = x \end{array}$$

CODE GREEN

KAHOOT!

#7-9

CODE RED – EXIT TICKET

Write a paragraph (3-5 sentences) summarizing what you learned in this lesson.

Complete your EXIT TICKET silently and independently at your seat. Remember to do your best and TRY every problem.

When you are finished, raise your hand and Coach Riddick will come around to collect it.