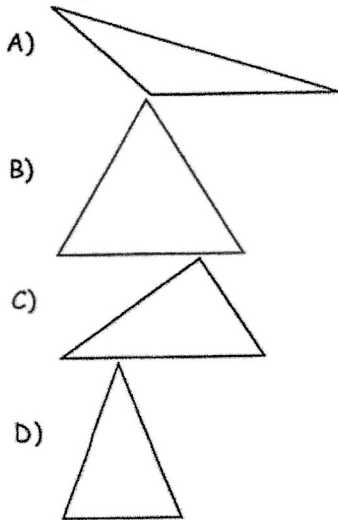


Review for Triangles Quiz

1) Which picture *appears* to be an isosceles triangle?



2) What is the sum of the measures of the interior angles of a triangle?

- A) 360°
- B) 180°
- C) 540°
- D) 720°

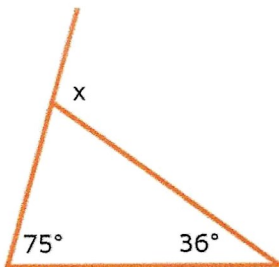
3) Two angles of a triangle **each** measure 70° . Find the measure of the third angle.

- A) 90°
- B) 110°
- C) 70°
- D) 40°

4) Two angles of a triangle have measures of 43° and 48° . Find the measure of the third angle.

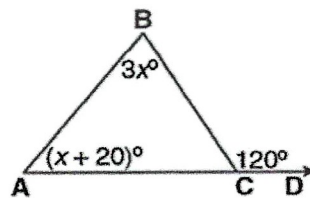
- A) 91°
- B) 43°
- C) 89°
- D) 180°

5) Solve for the value of x



- A) $x = 15$
- B) $x = 36$
- C) $x = 111$
- D) $x = 69$

6) Find the value of x .



- A) $x = 25$
- B) $x = 10$
- C) $x = 40$
- D) $x = 120$

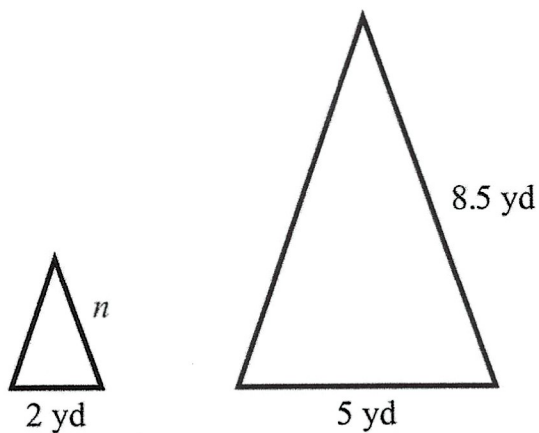
7) The measures of the angles of a triangle are represented as follows: $m\angle A = (4x)^\circ$, $m\angle B = (x + 40)^\circ$, and $m\angle C = (2x)^\circ$. Solve for the value of x .

- A) $x = 30$
- B) $x = 8$
- C) $x = 23$
- D) $x = 20$

8) Using the information and your answer from question #7 Solve for the $m\angle B$

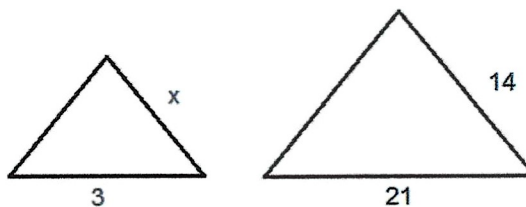
- A) 80°
- B) 60°
- C) 40°
- D) 75°

9) Find the value of n if the two triangles given are similar.



- A) $n = 21.25$
- B) $n = 13.5$
- C) $n = 8.5$
- D) $n = 3.4$

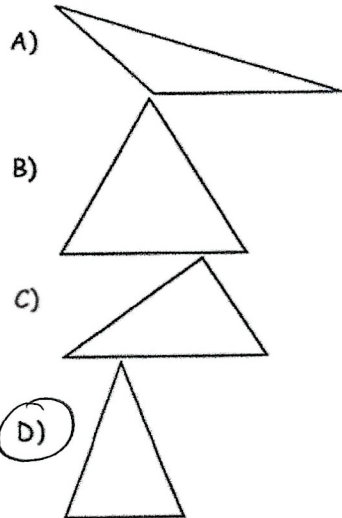
10) Find the value of x if the two triangles given are similar.



- A) $x = 98$
- B) $x = 24$
- C) $x = 2$
- D) $x = 14$

Review for Triangles Quiz

1) Which picture appears to be an isosceles triangle?



↓
2
Congruent
(equal)
sides

2) What is the sum of the measures of the interior angles of a triangle?

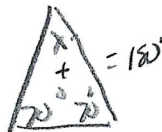
- A) 360°
- B) 180°**
- C) 540°
- D) 720°

The 3 interior angles will always add up to 180°

3) Two angles of a triangle each measure 70° . Find the measure of the third angle.

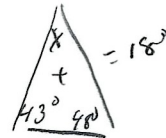
- A) 90°
- B) 110°
- C) 70°
- D) 40°**

$$\begin{aligned} x + 70 + 70 &= 180 \\ x + 140 &= 180 \\ -140 \quad -140 & \\ \hline x &= 40 \end{aligned}$$



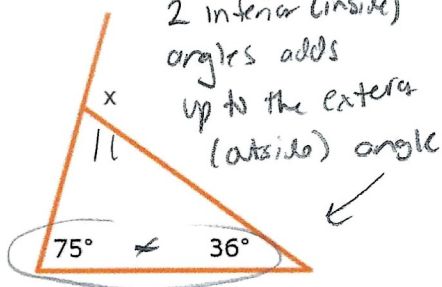
4) Two angles of a triangle have measures of 43° and 48° . Find the measure of the third angle.

- A) 91°
- B) 43°
- C) 89°**
- D) 180°



$$\begin{aligned} x + 43 + 48 &= 180 \\ x + 91 &= 180 \\ -91 \quad -91 & \\ \hline x &= 89 \end{aligned}$$

5) Solve for the value of x .

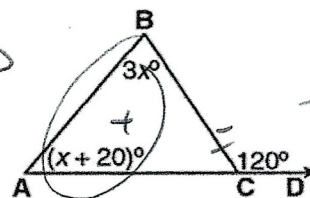


Sum of the 2 interior (inside) angles adds up to the exterior (outside) angle

$$\begin{aligned} 75 + 36 &= x \\ 111 &= x \end{aligned}$$

- A) $x = 15$
- B) $x = 36$
- C) $x = 111$**
- D) $x = 69$

6) Find the value of x .

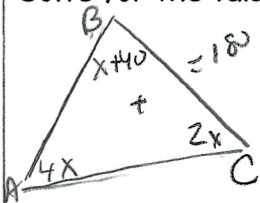


$$\begin{aligned} 3x + x + 20 &= 120 \\ 4x + 20 &= 120 \\ -20 \quad -20 & \\ \hline 4x &= 100 \\ \frac{4x}{4} &= \frac{100}{4} \\ x &= 25 \end{aligned}$$

- A) $x = 25$**
- B) $x = 10$
- C) $x = 40$
- D) $x = 120$

7) The measures of the angles of a triangle are represented as follows: $m\angle A = (4x)^\circ$, $m\angle B = (x + 40)^\circ$, and $m\angle C = (2x)^\circ$.

Solve for the value of x .



$$4x + x + 40 + 2x = 180$$

$$7x + 40 = 180$$

$$-40 \quad -40$$

$$\frac{7x = 140}{7 \quad 7}$$

$$x = 20$$

- A) $x = 30$
- B) $x = 8$
- C) $x = 23$
- D) $x = 20$

8) Using the information and your answer from question #7 Solve for the $m\angle B$

*Substitute using parentheses

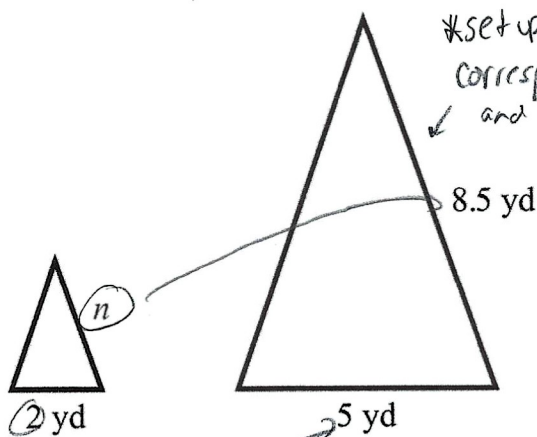
$$m\angle B = x + 40$$

$$m\angle B = 20 + 40$$

$$m\angle B = 60^\circ$$

- A) 80°
- B) 60°
- C) 40°
- D) 75°

9) Find the value of n if the two triangles given are similar.



*set up a proportion using corresponding (matching) sides and cross-multiply

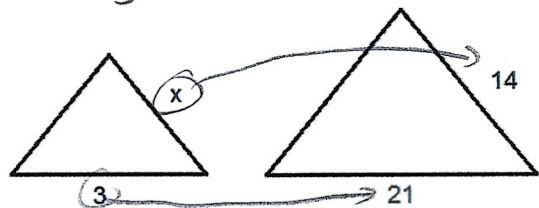
~~$$\frac{n}{8.5} = \frac{2}{5}$$~~

$$\frac{5n}{5} = \frac{17}{3}$$

$$n = 3.4$$

- A) $n = 21.25$
- B) $n = 13.5$
- C) $n = 8.5$
- D) $n = 3.4$

10) Find the value of x if the two triangles given are similar.



~~$$\frac{x}{14} = \frac{3}{21}$$~~

$$\frac{21x}{21} = \frac{42}{21}$$

$$x = 2$$

- A) $x = 98$
- B) $x = 24$
- C) $x = 2$
- D) $x = 14$