
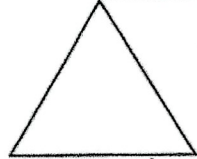
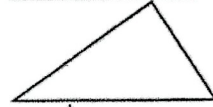

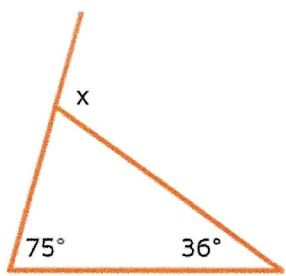
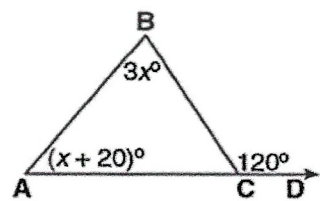


Review for Triangles Quiz

<p>1) Which picture appears to be an isosceles triangle?</p> <p>A) </p> <p>B) </p> <p>C) </p> <p>D) </p>	<p>2) What is the sum of the measures of the interior angles of a triangle?</p> <p>A) 360° B) 180° C) 540° D) 720°</p>
<p>3) Two angles of a triangle each measure 70°. Find the measure of the third angle.</p> <p>A) 90° B) 110° C) 70° D) 40°</p>	<p>4) Two angles of a triangle have measures of 43° and 48°. Find the measure of the third angle.</p> <p>A) 91° B) 43° C) 89° D) 180°</p>
<p>5) Solve for the value of x</p>  <p>A) $x = 15$ B) $x = 36$ C) $x = 111$ D) $x = 69$</p>	<p>6) Find the value of x.</p>  <p>A) $x = 25$ B) $x = 10$ C) $x = 40$ D) $x = 120$</p>

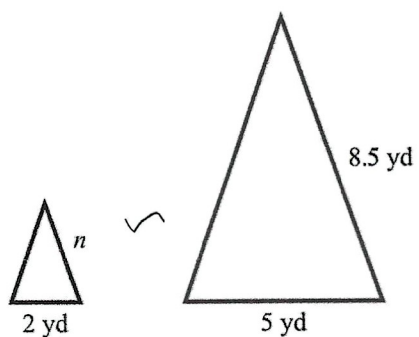
7) The measures of the angles of a triangle are represented as follows: $m\angle A = (4x)^\circ$, $m\angle B = (x + 40)^\circ$, and $m\angle C = (2x)^\circ$.
Solve for the value of x .

- 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 $m\angle B$

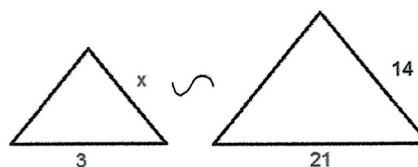
- A) 80°
- B) 60°
- C) 40°
- D) 75°

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



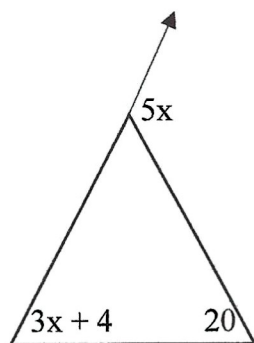
- A) $n = 21.25$
- B) $n = 13.5$
- C) $n = 8.5$
- D) $n = 3.4$

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

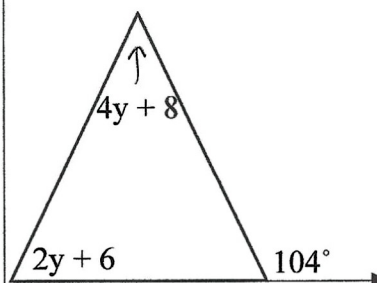


- A) $x = 98$
- B) $x = 24$
- C) $x = 2$
- D) $x = 14$

11) Solve for x :

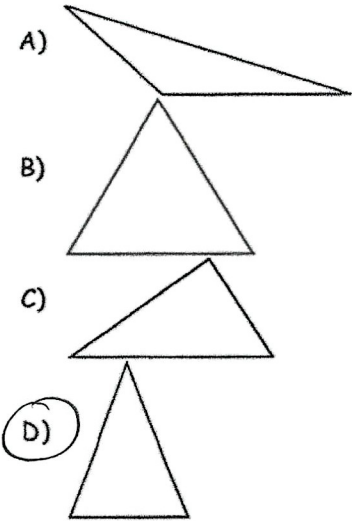


12) Solve for x :



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?

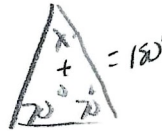
- A) 360°
- B) 180°**
- C) 540°
- D) 720°

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.

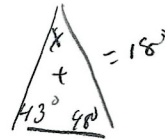
- A) 90°
- B) 110°
- C) 70°
- D) 40°**

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



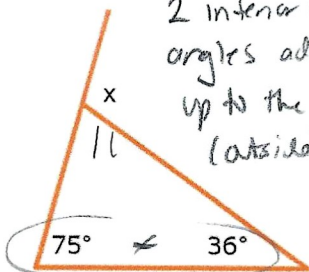
4) Two angles of a triangle have measures of 43° and 48°. Find the measure of the third angle.

- 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.

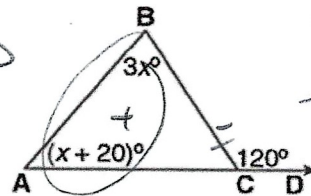


Sum of the 2 interior (inside) angles adds up to the exterior (outside) angle

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

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

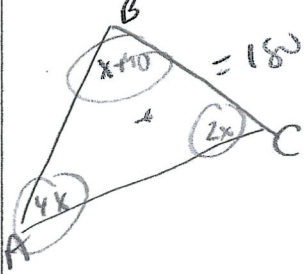
6) Find the value of x.



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

- 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 .



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

$$7x + 40 = 180$$

$$\begin{array}{r} -40 \quad -40 \\ \hline 7x = 140 \\ \frac{7}{7} \quad \frac{7}{7} \\ \hline x = 20 \end{array}$$

$$x = 20$$

- 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

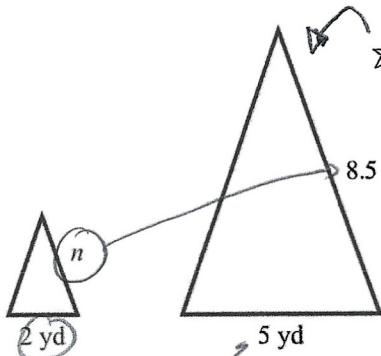
$$m\angle B = x + 40$$

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

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

- 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 sides and cross-multiply

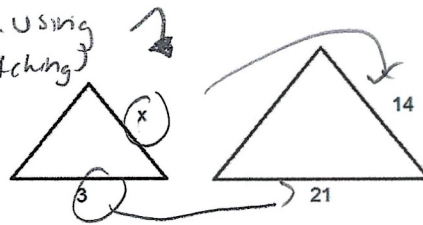
$$\frac{n}{8.5} = \frac{2}{5}$$

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

$$n = 3.4$$

- 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.



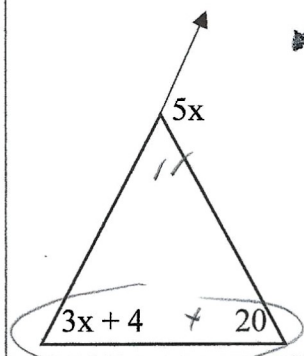
$$\frac{x}{14} = \frac{3}{21}$$

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

$$x = 2$$

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

11) Solve for x :



Sum of the 2 interior angles add up to the exterior

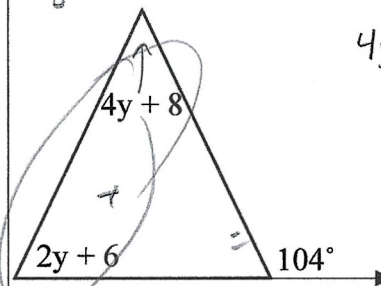
$$3x + 4 + 20 = 5x$$

$$3x + 24 = 5x$$

$$\begin{array}{r} -3x \quad -3x \\ \hline 24 = 2x \\ \frac{24}{2} = \frac{2x}{2} \\ \hline x = 12 \end{array}$$

$$x = 12$$

12) Solve for x :



$$4y + 8 + 2y + 6 = 104$$

$$6y + 14 = 104$$

$$\frac{6y}{6} = \frac{90}{6}$$

$$y = 15$$