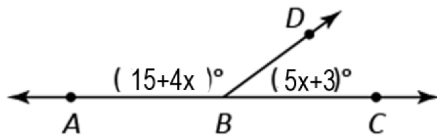


Geometry Common Assessment 4 REVIEW

1

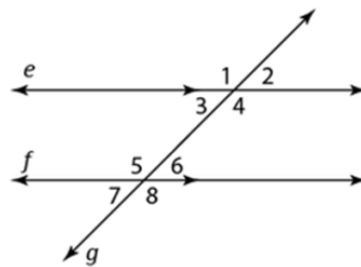
Point D is in the interior of $\angle ABC$. What is the $m\angle DBC$?



2

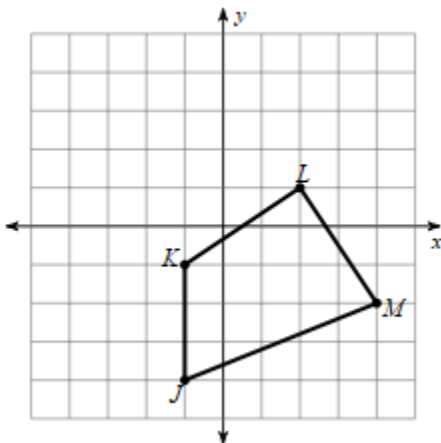
Which angle is congruent to $\angle 1$? Select all that apply. (**Choose 2 answers!!**)

- ☐ A. $\angle 5$
- ☐ B. $\angle 6$
- ☐ C. $\angle 7$
- ☐ D. $\angle 8$



3

Use quadrilateral JKLM. What are the coordinates of the image $R_{y\text{-axis}}(JKLM) = J'K'L'M'$?

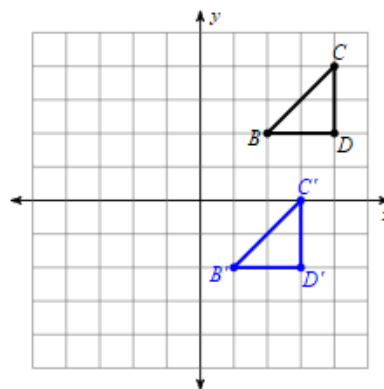


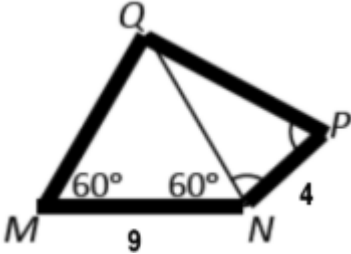

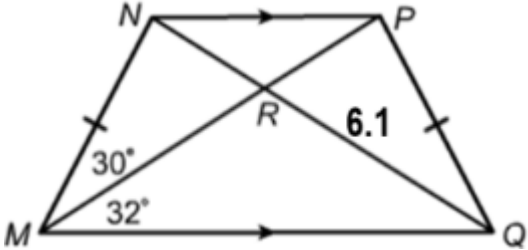
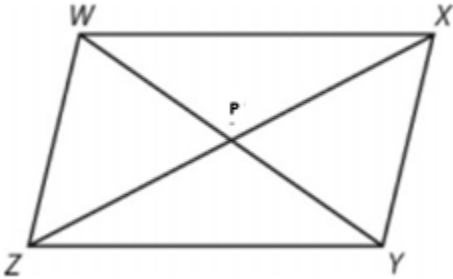
$J' = (\quad)$
 $K' = (\quad)$
 $L' = (\quad)$
 $M' = (\quad)$

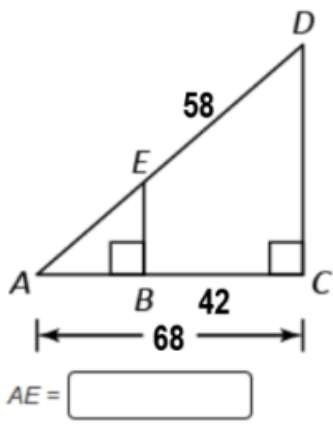
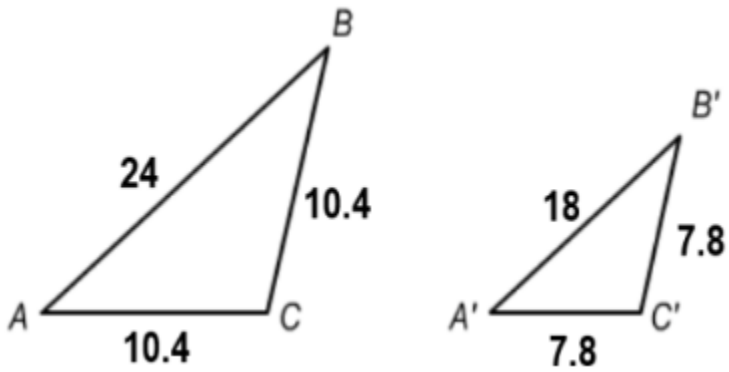
4

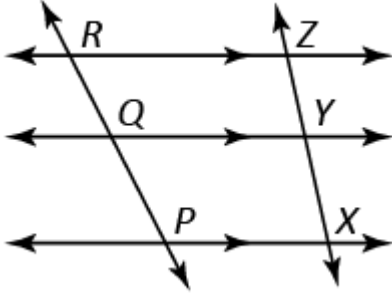
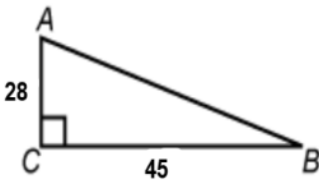
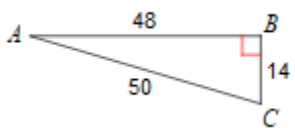
What is the rule for the translation of $\triangle BCD$ to $\triangle B'C'D'$? Select all that apply? (**Choose 2 answers!**)

- ☐ A. $T_{(1,4)}$
- ☐ B. $T_{(-1,-4)}$
- ☐ C. 1 unit down, 4 units left
- ☐ D. 1 unit left, 4 units down



<p>5</p>	<p>What is the perimeter of quadrilateral MNPQ? Perimeter of MNPQ = <input type="text"/></p> 
<p>6</p>	<p>Refer to the diagram shown. If \overline{SU} and \overline{RT} bisect each other, which theorem(s) can be used to show that $\triangle RSV \cong \triangle TUV$? State at least two theorems that apply.</p> 
<p>7.</p> <p>A. 4.3 B. 6.1 C. 2 D. not enough information</p>	
<p>8.</p> <p><input type="checkbox"/> A. $m\angle WXY + m\angle YZW = 180^\circ$ <input type="checkbox"/> B. $\angle YWZ \cong \angle WYX$ <input type="checkbox"/> C. $\overline{XY} \cong \overline{WZ}$ <input type="checkbox"/> D. $\overline{WP} \cong \overline{YP}$</p>	
<p>9.</p>	<p>How do the angles and side lengths of the preimage relate to the corresponding angles and side lengths of the image of a dilation with a scale factor not equal to 1?</p>

10.	<p>The point A has coordinates A(5,8). What are the coordinates of A' for the dilation $D_{2.5}(A)$?</p> <p>A' (_____ , _____)</p>
11.	<p>The image of a figure that undergoes one or more rigid motions and a dilation is always _____ its preimage.</p>
12.	<p>Given $\triangle ADC$ and $\triangle AEB$. What is AE? (Hint: Find AB first.)</p>  <p>AE = <input type="text"/></p>
13.	<p>What is the scale factor of the dilation shown?</p> 

14.	<p>What conclusion does the diagram support?</p> <p>A. $PX = \frac{1}{2} RZ$</p> <p>B. $\frac{QY}{RZ} = \frac{PX}{QY}$</p> <p>C. $QY = \frac{1}{2} PX$</p> <p>D. $\frac{PQ}{QR} = \frac{XY}{YZ}$</p> 
15.	<p>What is AB?</p>  <p>AB = <input type="text"/></p>
16.	<p>What is a triangle midsegment? What is the relationship between a triangle midsegment and the third side of the triangle?</p>
17.	<p>What is the cosine ratio of $\angle C$?</p>  <p>A. $\frac{24}{7}$</p> <p>B. $\frac{7}{24}$</p> <p>C. $\frac{7}{25}$</p> <p>D. $\frac{25}{7}$</p>

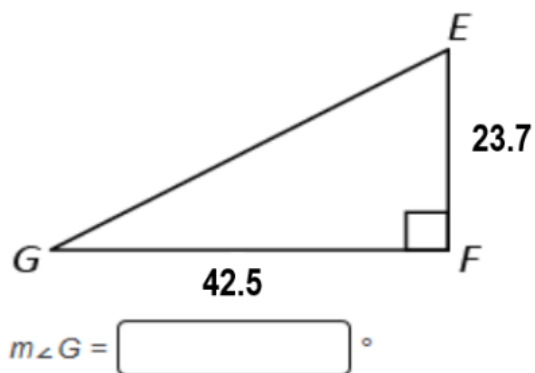
18.

Which value is equal to $\frac{\sqrt{2}}{2}$? Select two answers.

- A. $\sin 45^\circ$
- B. $\tan 30^\circ$
- C. $\tan 45^\circ$
- D. $\sin 30^\circ$
- E. $\cos 60^\circ$
- F. $\cos 45^\circ$

19.

What is $m\angle G$ to the nearest tenth?



20.

The angle of elevation from a viewer to the top of a flagpole is 43 degrees. The viewer is 76 feet away and the viewer's eyes are 5.5 feet from the ground. How high is the pole to the nearest tenth of a foot?

First find x and then find the height of the pole.

