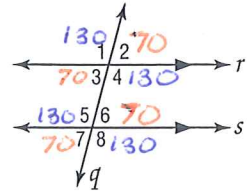


3-2 Skills Practice

Angles and Parallel Lines

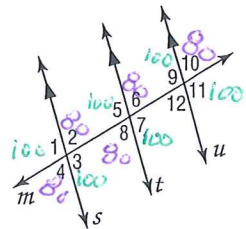
In the figure, $m\angle 2 = 70$. Find the measure of each angle.

- 1. $\angle 3$ 70°
- 2. $\angle 5$ 130°
- 3. $\angle 8$ 130°
- 4. $\angle 1$ 130°
- 5. $\angle 4$ 130°
- 6. $\angle 6$ 70°



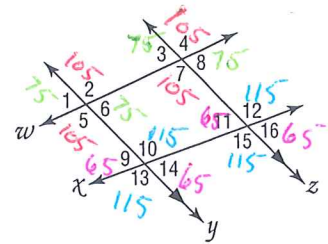
In the figure, $m\angle 7 = 100$. Find the measure of each angle.

- 7. $\angle 9$ 100°
- 8. $\angle 6$ 80°
- 9. $\angle 8$ 80°
- 10. $\angle 2$ 80°
- 11. $\angle 5$ 100°
- 12. $\angle 11$ 100°



In the figure, $m\angle 3 = 75$ and $m\angle 10 = 115$. Find the measure of each angle.

- 13. $\angle 2$ 105°
- 14. $\angle 5$ 105°
- 15. $\angle 7$ 105°
- 16. $\angle 15$ 115°
- 17. $\angle 14$ 65°
- 18. $\angle 9$ 65°



Lesson 3-2

Find x and y in each figure.

19.

$40 + 5x = 180$
 $5x = 140$
 $\frac{5x}{5} = \frac{140}{5}$
 $x = 28$
 $3y - 1 = 140$
 $3y = 141$
 $\frac{3y}{3} = \frac{141}{3}$
 $y = 47$

20.

$8x - 10 = 7x$
 $-7x$
 $8x - 10 - 7x = 7x - 7x$
 $x - 10 = 0$
 $+10$
 $x = 10$

21.

$60 + 20 = 80$
 80

22.

$6y + 20 + 70 = 180$
 $6y + 90 = 180$
 -90
 $6y = 90$
 $\frac{6y}{6} = \frac{90}{6}$
 $y = 15$