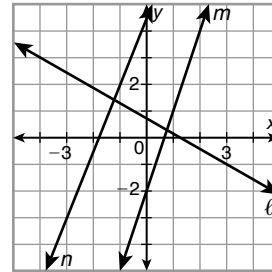


LESSON

Practice B

7-1 Ratio and Proportion

Use the graph for Exercises 1–3. Write a ratio expressing the slope of each line.



1. ℓ _____

2. m _____

3. n _____

4. The ratio of the angle measures in a quadrilateral is $1 : 4 : 5 : 6$. Find each angle measure. _____

5. The ratio of the side lengths in a rectangle is $5 : 2 : 5 : 2$, and its area is 90 square feet. Find the side lengths. _____

For part of her homework, Celia measured the angles and the lengths of the sides of two triangles. She wrote down the ratios for angle measures and side lengths. Two of the ratios were $4 : 7 : 8$ and $3 : 8 : 13$.

6. When Celia got to school the next day, she couldn't remember which ratio was for angles and which was for sides. Tell which must be the ratio of the lengths of the sides. Explain your answer.

7. Find the measures of the angles of one of Celia's triangles. _____

Solve each proportion.

8. $\frac{28}{p} = \frac{42}{3}$

$p =$ _____

9. $\frac{28}{24} = \frac{q}{102}$

$q =$ _____

10. $\frac{3}{4.5} = \frac{7}{r}$

$r =$ _____

11. $\frac{9}{s} = \frac{s}{25}$

$s =$ _____

12. $\frac{50}{2t + 4} = \frac{2t + 4}{2}$

$t =$ _____

13. $\frac{u + 3}{8} = \frac{5}{u - 3}$

$u =$ _____

14. Given that $12a = 20b$, find the ratio of a to b in simplest form. _____

15. Given that $34x = 51y$, find the ratio $x : y$ in simplest form. _____