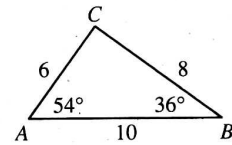


Ratio and Proportion

For use after Section 7-2

Use the diagram to find the value of each ratio in simplest form.

1. $AC : BC$ _____
2. $AB : BC$ _____
3. $m\angle B : m\angle A$ _____
4. $m\angle C : m\angle B$ _____



Exs. 1-4

In Exercises 5-10, $e = 6$, $f = 15$, and $g = 30$. Write each ratio in simplest form.

5. e to g _____
6. f to e _____
7. $\frac{g-e}{f}$ _____
8. $\frac{e}{f+g}$ _____
9. $e : f : g$ _____
10. $g : (e+f) : (e+f+g)$ _____

Exercises 11-12 refer to a triangle. Express the ratio of the height to the base in simplest form.

11. height 6 cm; base 8 cm _____
12. height 150 cm; base 1.2 m _____

Complete each statement.

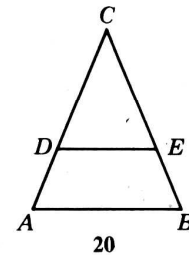
13. If $b : 8 = 2 : 7$, then $7b =$ _____.
14. If $\frac{e}{3} = \frac{f}{4}$, then $\frac{e}{f} =$ _____.
15. If $\frac{2-y}{y} = \frac{6}{4}$, then $\frac{2}{y} =$ _____.
16. If $\frac{x+2}{8} = \frac{5}{10}$, then $\frac{x+7}{18} =$ _____.

Find the value of x .

17. $\frac{x}{3} = \frac{5}{7}$ _____
18. $\frac{20}{x} = \frac{5}{12}$ _____
19. $\frac{x+2}{4} = \frac{9}{2}$ _____

For the figure shown it is given that $\frac{CD}{CA} = \frac{DE}{AB}$.

20. If $CD = 6$, $CA = 9$, and $DE = 18$, then $AB =$ _____.
21. If $CA = 60$, $CD = 40$, and $AB = 20$, then $DE =$ _____.
22. If $DE = 24$, $AB = 54$, and $CD = 12$, then $CA =$ _____.
23. If $CD = 4$, $CA = 10$, and $AB = 40$, then $DE =$ _____.
24. If $CA = 30$, $CD = 12$, and $AB = 45$, then $DE =$ _____.
25. If $DE = 14$, $AB = 21$, and $AC = 27$, then $CD =$ _____.
26. If $AB = 25$, $DE = 15$, and $CD = 9$, then $CA =$ _____.



<p>21)</p>	<p>22)</p>	<p>23)</p>
<p>24)</p>	<p>25)</p>	<p>26)</p>