

Name _____

Hour _____

Ratios & Proportions #1

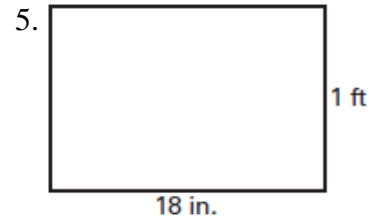
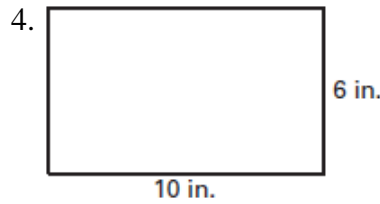
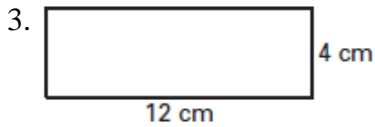
1. What is the ratio of small unshaded triangles to small shaded triangles?



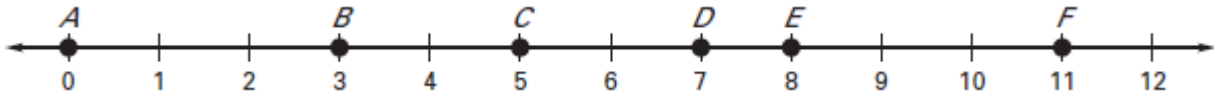
2. What is the ratio of small shaded triangles to total small triangles?



Find the ratio of the length to the width of the rectangle in simplest form.



Use the number line to find the ratio of the distances.



6. $\frac{AB}{CF}$

7. $\frac{BF}{CD}$

8. $\frac{DF}{CF}$

9. $\frac{CE}{AB}$

Solve the proportion.

10. $\frac{10}{2} = \frac{x}{7}$

11. $\frac{x}{6} = \frac{-15}{2}$

12. $\frac{7}{3x} = \frac{2}{6}$

13. $\frac{8}{5} = \frac{10}{5x}$

14. $\frac{8}{x-7} = \frac{4}{2}$

15. $\frac{6}{10} = \frac{x+7}{9}$

16. $\frac{2x+6}{5} = \frac{8}{4}$

17. $\frac{3}{3x+6} = \frac{2}{4}$

18. $\frac{x-3}{5} = \frac{x}{6}$

19. $\frac{9}{9x} = \frac{8}{x-7}$

20. $\frac{x-9}{8} = \frac{x-6}{10}$

21. $\frac{2x-4}{x-7} = \frac{3}{6}$

Use the following information to answer questions 22–24.

The aspect ratio of a television screen is the ratio of the screen's width to its height. A widescreen TV has an aspect ratio of 16:9.

22. What is the height of a widescreen TV if its width is 28 inches?

23. What is the width of a widescreen TV if its height is 22.5 inches?

24. A TV screen has a width of 28 inches and a height of 21 inches. What is the aspect ratio of this screen?