

## Chapter 7 Test Review

Solve the proportions for #1-3.

1.  $\frac{5x}{30} = \frac{4}{21}$

$50 - 15y = 12x$

$30 = 37x$

$\frac{30}{37} = \frac{10}{12}$

2.  $\frac{1}{4} = \frac{2}{5x}$

$5x - 12 = 15 + 19$

$10x = 31$

$10y = 50, 20y + 60 = 52 - 12x$

$10y + 172 = 52 - (x - 6 + 7)$

$10y - 20y = 2 - 20y$

$4 = \frac{x^2}{15} + x - 7$

$4 = \frac{y+6}{10} = \frac{1}{15} \cdot x$

$= 20$

$x^2 + 15x - 105 = 0$

$x^2 + 15x - 105 = 0$

$x = 2, 5x = 27$

$x^2 + 15x - 105 = 0$

$x = 2, 5x = 27$

4. The ratio of the side lengths of an isosceles triangle is 4:4:7, and the perimeter is 52.5 cm. What is the length of the base of the triangle?



$15x = 52.5$

$x = 3.5$

base = 24.5

5. Given  $\triangle ABC \sim \triangle XYZ$ ,  $m\angle X = (2x + 5y)^\circ$ ,  $m\angle A = 50^\circ$ ,  $m\angle Z = (5x + y)^\circ$ , and  $m\angle B = (102 - x)^\circ$ . Find  $m\angle Z$ .



$5x + y + 102 - x + 50 = 180$

$4x + y = 28$

6. The perimeter of a rectangle is 128 ft. The ratio of the length to the width is 3:5. Find the area.



$16x = 128$

$x = 8$

24  
40  
160

7. The area of a rectangle is 720 sq ft. The ratio of length to width is 5:4. Find the perimeter of the rectangle.



$5x \cdot 4x = 720$

$20x^2 = 720$

$x^2 = 36$

$x = 6$

70  
24  
9  
60  
148

8. The measure of the angles of a triangle are in the extended ratio 2:7:9. Find the measure of the angles.



$2x + 7x + 9x = 180$

$18x = 180$

$x = 10$

20  
70  
40

9. The lengths of the legs of a right  $\triangle ABC$  are 3 ft and 4 ft. The shortest side of right  $\triangle UVW$  is 4.5 ft. Triangle  $ABC$  is similar to triangle  $UVW$ . How long is the hypotenuse of  $\triangle UVW$ ?



7.5

# Chapter 7 Test Review Answer Key

**L Towne**



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