

Use the situation below to answer questions 1 and 2.

Marlee had a certain amount of money (x) in her bank account. She deposited \$60.00 from her grandmother for her birthday. She then spent $\frac{1}{4}$ of the money in her account on rent that totaled \$550.

1. Which equation represents this situation?

- (A) $\frac{1}{4}x + 60 = 550$ (B) $\frac{1}{4}(x - 60) = 550$
 (C) $x + 60 \times \frac{1}{4} = 550$ (D) $\frac{1}{4}(x + 60) = 550$

2. How much money (x) did Marlee have in her account to begin with?

- (A) \$2,140.00 (B) \$2,440.00
 (C) \$1,960.00 (D) \$790.00

3. Which sequence of steps will solve the equation below for x ?

$$\frac{x}{3} + 8 = -2$$

- (A) Step 1: Subtract 8 from both sides of the equation
 Step 2: Divide both sides of the equation by 3
 (B) Step 1: Subtract 8 from both sides of the equation
 Step 2: Multiply both sides of the equation by 3
 (C) Step 1: Divide both sides of the equation by 3
 Step 2: Add 8 to both sides of the equation
 (D) Step 1: Add 8 to both sides of the equation
 Step 2: Divide both sides of the equation by 3

Use the situation below to answer questions 4 and 5.

A rectangle has an area of 195 ft^2 . Its width is 13 ft.

4. Which equation will calculate the length (l) of the rectangle?

- (A) $195 \times l = 13$ (B) $13 \times l = 195$
 (C) $2(l + 13) = 195$ (D) $\frac{l}{13} = 195$

5. What is the length (l) of the rectangle?

- (A) 84.5 ft. (B) 2,535 ft.
 (C) 15 ft. (D) 26 ft.

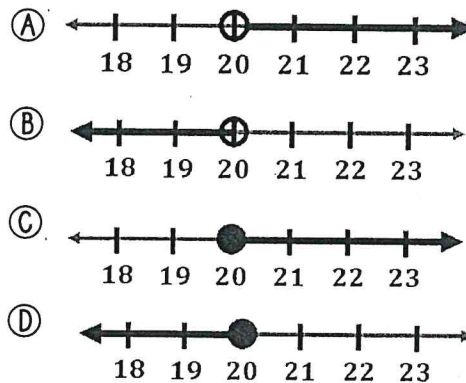
6. Solve the inequality for x .

$$-5x + 24 > -6$$

- (A) $x < 6$ (B) $x > 6$
 (C) $x < -6$ (D) $x > -6$

7. Which number line represents the solution to the inequality shown below?

$$\frac{1}{2}x \leq 10$$



Use the situation below to answer questions 8 and 9.

George has \$75 saved. He knows he can make \$20 for each lawn (l) he mows. He would like his savings account balance to be at least \$500 by the end of the summer.

8. Which inequality represents George's summer savings goal?

- (A) $75 + 20l \geq 500$ (B) $75 + 20l \leq 500$
 (C) $75l + 20 \geq 500$ (D) $75l + 20 \leq 500$

9. How many lawns will George have to mow to reach his savings goal?

- (A) 21 lawns (B) 22 lawns
 (C) 6 lawns (D) 7 lawns

Week 4: Math HW Apr 8-12 (Thurs, All)

Use the situation below to answer questions 1 and 2

Figure 1 shows a circle divided into 20 equal parts. Figure 2 shows those same 20 parts rearranged to form an approximate parallelogram.

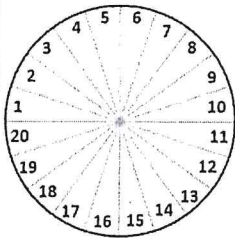


Figure 1

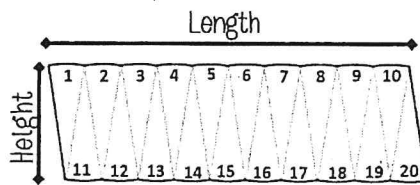


Figure 2

1. Which part of the circle in Figure 1 will have the same measure as the **height** in Figure 2?

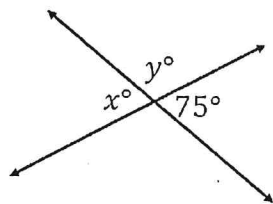
- (A) Diameter
- (B) Radius
- (C) Circumference
- (D) $\frac{1}{2}$ Circumference

2. Which part of the circle in Figure 1 will have the same measure as the **length** in Figure 2?

- (A) Diameter
- (B) Radius
- (C) Circumference
- (D) $\frac{1}{2}$ Circumference

3. In the figure below, what is the measure of x° and y° ?

- (A) $x^\circ = 75^\circ, y^\circ = 105^\circ$
- (B) $x^\circ = 105^\circ, y^\circ = 75^\circ$
- (C) $x^\circ = 75^\circ, y^\circ = 115^\circ$
- (D) $x^\circ = 115^\circ, y^\circ = 75^\circ$



4. Two angles are *complementary*. The measure of one of the angles is 37° . What is the measure of the second angle?

- (A) 37°
- (B) 53°
- (C) 90°
- (D) 143°

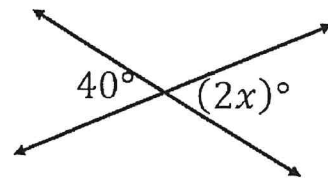
5. Two angles are *supplementary*. The measure of one of the angles is 37° . What is the measure of the second angle?

- (A) 37°
- (B) 53°
- (C) 90°
- (D) 143°

6. Two angles are *vertical*. The measure of the first angle is 37° . What is the measure of the second angle?

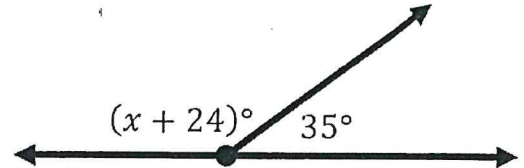
- (A) 37°
- (B) 53°
- (C) 90°
- (D) 143°

7. In the figure below, what is the value of x ?



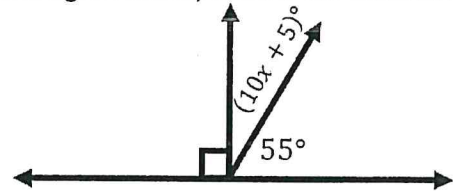
- (A) 40
- (B) 70
- (C) 20
- (D) 140

8. In the figure below, what is the value of x ?



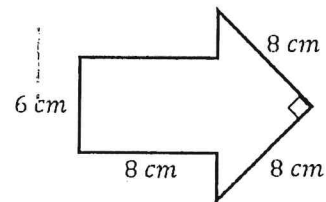
- (A) 121
- (B) 59
- (C) 11
- (D) 31

9. In the figure below, what is the value of x ?



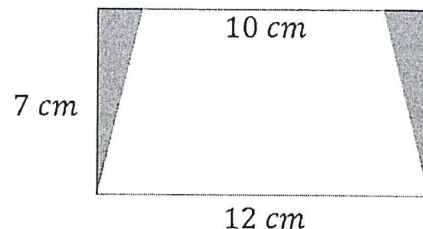
- (A) 4
- (B) 5
- (C) 3
- (D) 12

10. Find the area of the figure below.



- (A) 48 cm^2
- (B) 80 cm^2
- (C) 64 cm^2
- (D) 112 cm^2

11. Find the area of the shaded region in the figure below.



- (A) 7 cm^2
- (B) 84 cm^2
- (C) 14 cm^2
- (D) 77 cm^2