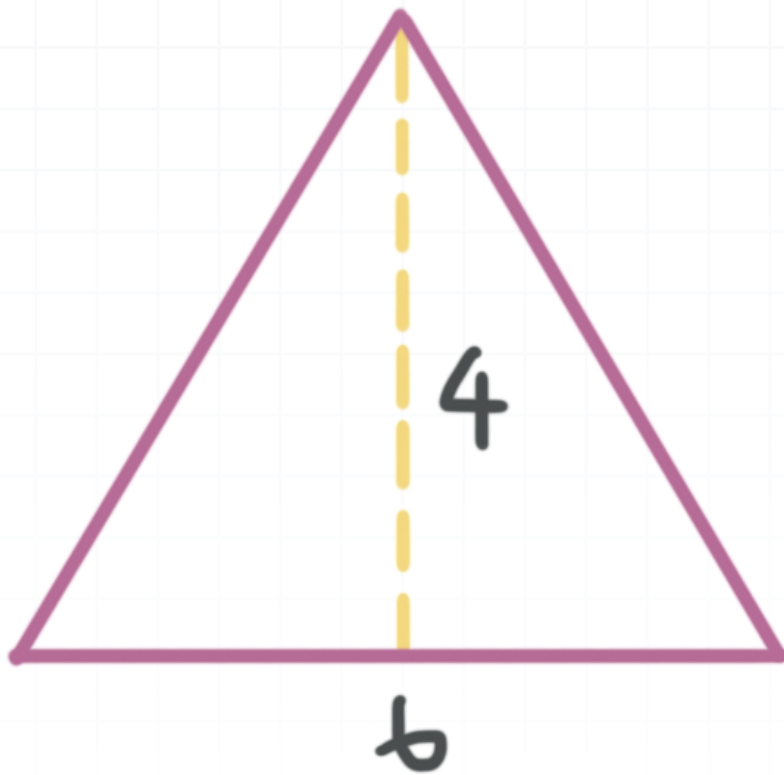


Topic: Area of a triangle**Question:** Find the area of the triangle.**Answer choices:**

- A 24 ft^2
- B 12 ft^3
- C 12 ft
- D 12 ft^2



Solution: D

Plugging in the dimensions of the triangle we've been given into the formula for the area of a triangle, we get

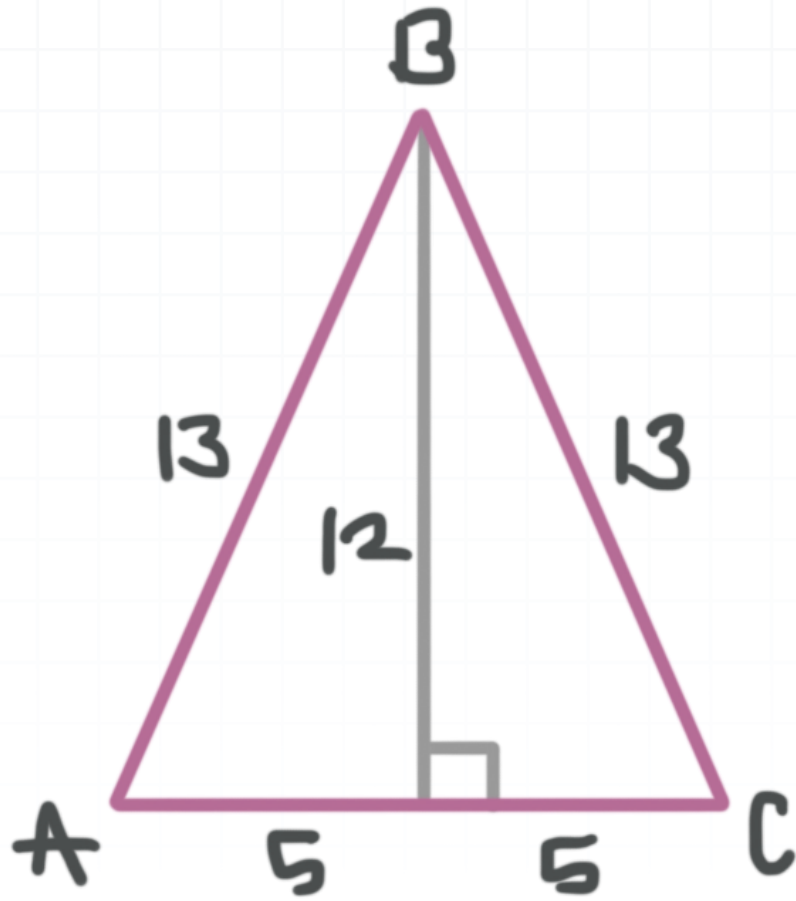
$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(6 \text{ ft})(4 \text{ ft})$$

$$A = \frac{1}{2}(24 \text{ ft}^2)$$

$$A = 12 \text{ ft}^2$$



Topic: Area of a triangle**Question:** What is the area of triangle ABC ?**Answer choices:**

- A 60
- B 65
- C 120
- D 156



Solution: A

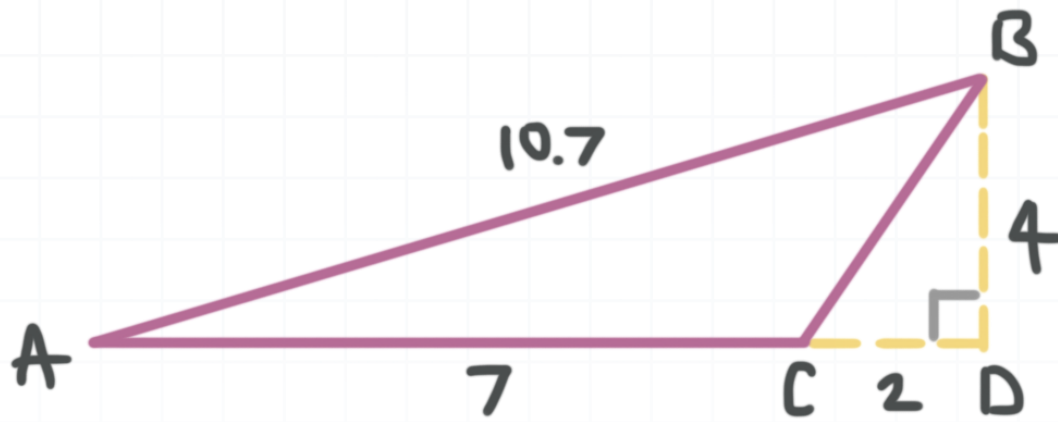
The base b is \overline{AC} , which has a length of 10, and the height h is 12. So the area is given by

$$\text{area} = \frac{1}{2}(10)(12)$$

$$\text{area} = \frac{1}{2}(120)$$

$$\text{area} = 60$$



Topic: Area of a triangle**Question:** What is the area of triangle ABC ?**Answer choices:**

- A 4
- B 8
- C 14
- D 18



Solution: C

The base b is \overline{AC} , which has a length of 7. The height h is \overline{BD} , which has a length of 4. So the area is given by

$$\text{area} = \frac{1}{2}(7)(4)$$

$$\text{area} = \frac{1}{2}(28)$$

$$\text{area} = 14$$

