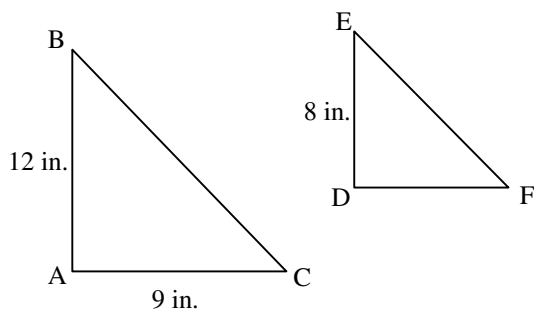


### 3A Compare and contrast proportional and nonproportional relationships

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1. If  $\triangle ABC$  is similar to  $\triangle DEF$ , what is the length of  $DF$ ?



- A** 6 in.  
**B** 8 in.  
**C** 9 in.  
**D** 11 in.
2. A study found that 3 to 5 customers entered a certain store every minute. Which is a reasonable total number of customers who would enter the store in 1 hour?
- A** 60  
**B** 125  
**C** 250  
**D** 450

3. Walt's parking lot near the stadium can hold 90 to 100 cars per acre. The parking lot has an area of  $14\frac{1}{2}$  acres. Which is a reasonable estimate of the total capacity of the parking lot?

- A** 900 cars  
**B** 1000 cars  
**C** 1400 cars  
**D** 1800 cars

4. A photo measures 2 cm long by 4 cm wide. It is enlarged so that the enlargement is 12 cm wide. How long is the enlargement?

- A** 4 cm  
**B** 6 cm  
**C** 8 cm  
**D** 10 cm