Oklahoma School Testing Program



Oklahoma Core Curriculum Tests

2010–2011 Released Items

End-of-Instruction ACE Geometry

Oklahoma State Department of Education Oklahoma City, Oklahoma



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Directions

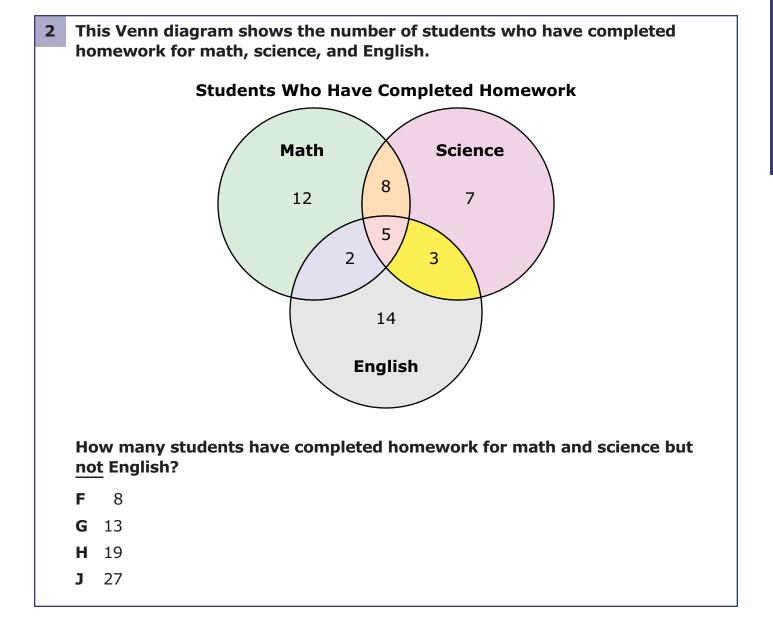
Read each question and choose the best answer.

1 Which sequence of statements is an example of deductive reasoning?

- **A** Birds have wings. A sparrow is a bird. Therefore, all sparrows have wings.
- **B** Bananas are yellow. A banana is a fruit. Therefore, all yellow fruits are bananas.
- **C** Trees have leaves. Trees are tall plants. Therefore, all tall plants have leaves.
- **D** Animals have four legs. An elephant is an animal. Therefore, all animals are elephants.



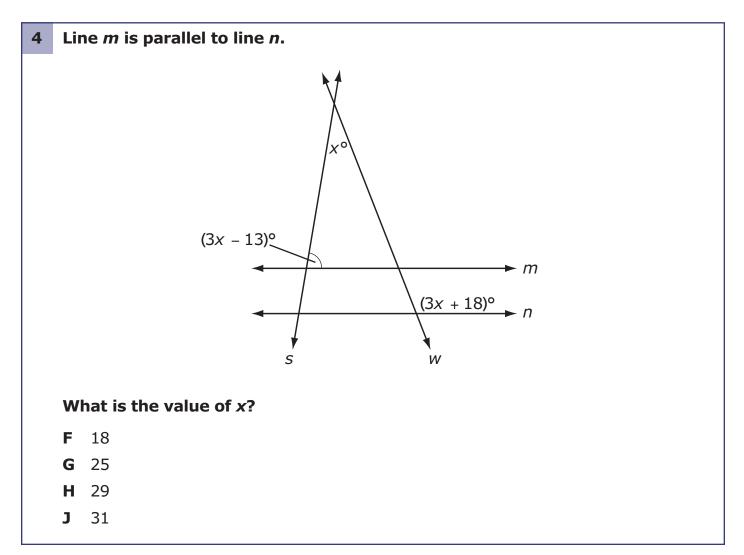




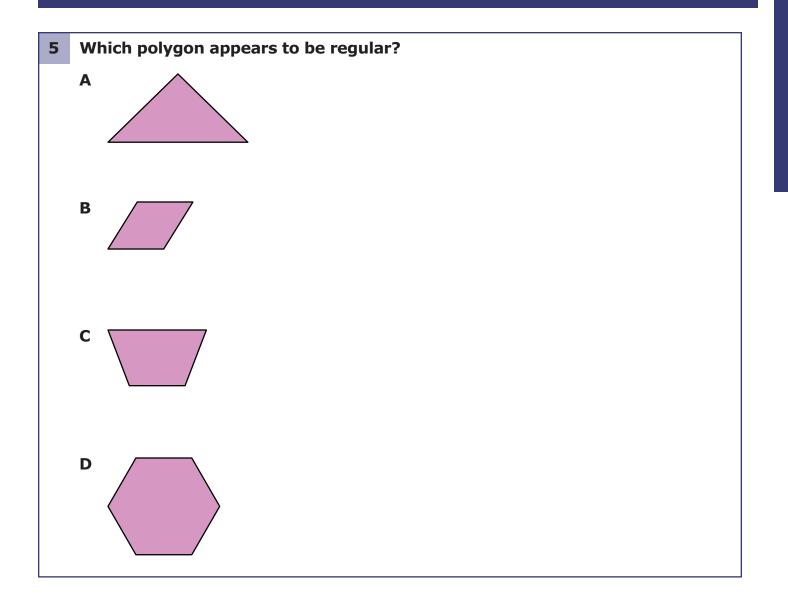
If Sally goes to the store, she will buy apples.

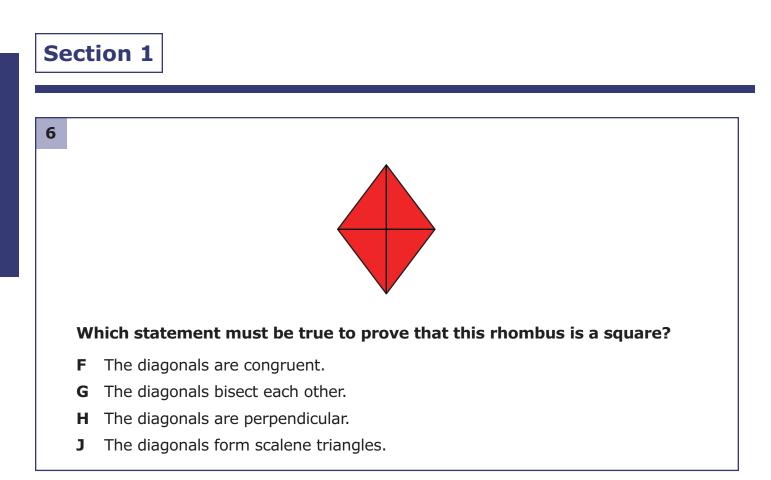
Which statement is the contrapositive of the above statement?

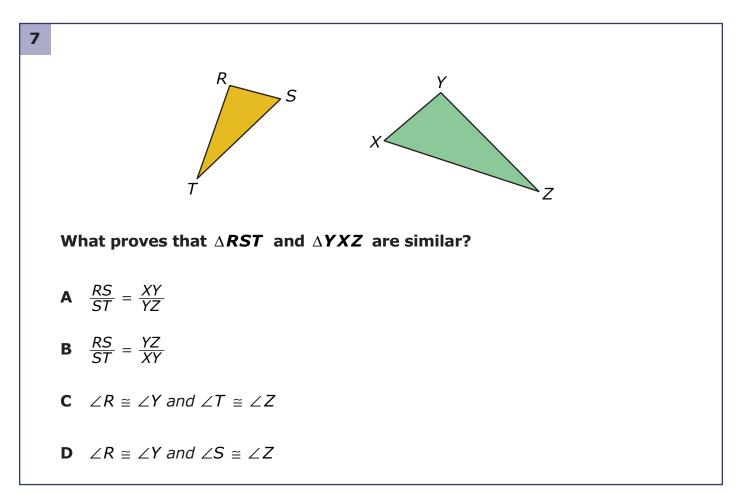
- **A** If Sally buys apples, she did go to the store.
- **B** If Sally goes to the store, she will not buy apples.
- **C** If Sally does not buy apples, she did not go to the store.
- **D** If Sally does not go to the store, she will not buy apples.



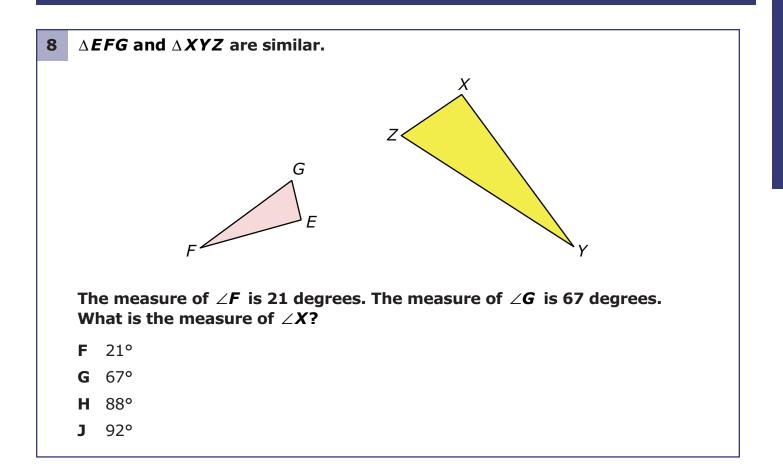


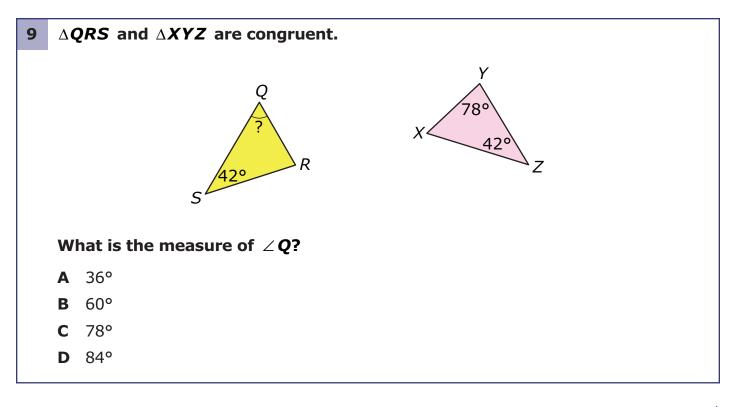




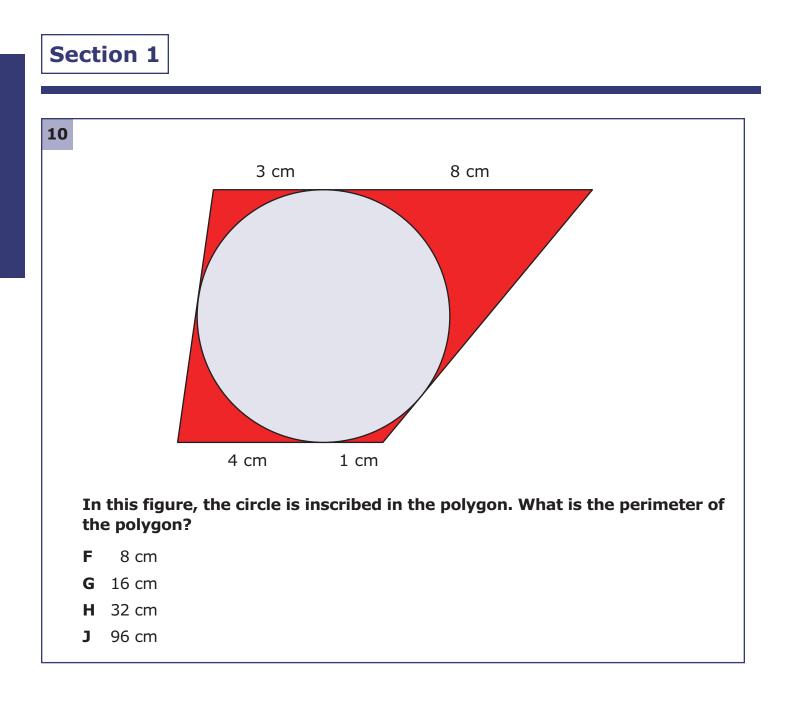








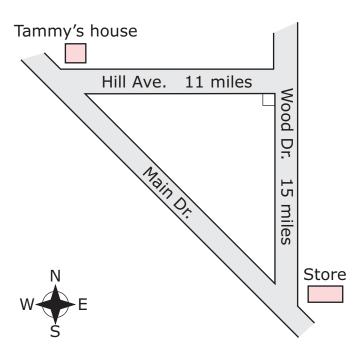
GO ON



11 Sam uses square tiles that measure 12 inches on each side to cover his kitchen floor. He creates a design in the center of the floor with tiles cut in half diagonally. About how long is the diagonal of one tile?

- **A** 6 inches
- **B** 12 inches
- C 17 inches
- **D** 24 inches

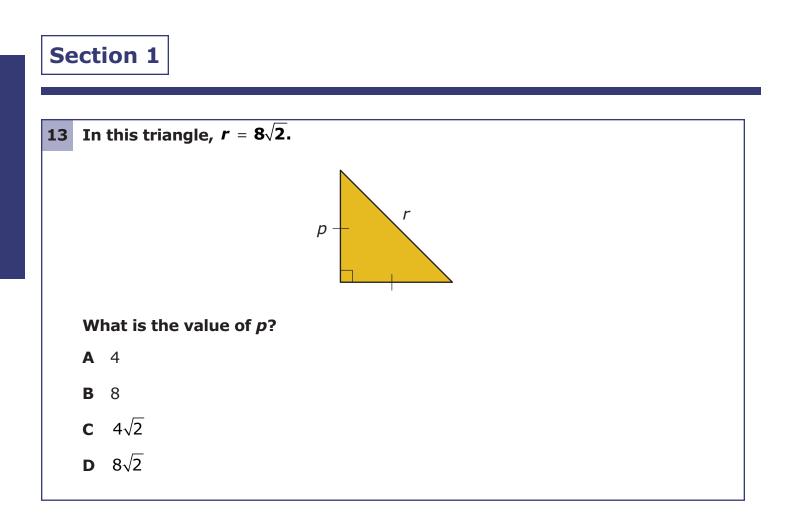
12 Tammy goes from her house to a store by traveling 11 miles east on Hill Avenue and 15 miles south on Wood Drive. To go home from the store, Tammy uses Main Drive.



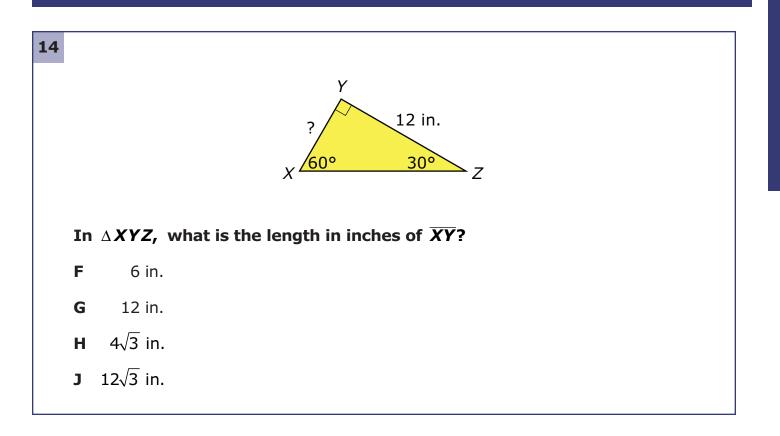
Tammy's route back home is about how many miles <u>less</u> than her route to the store?

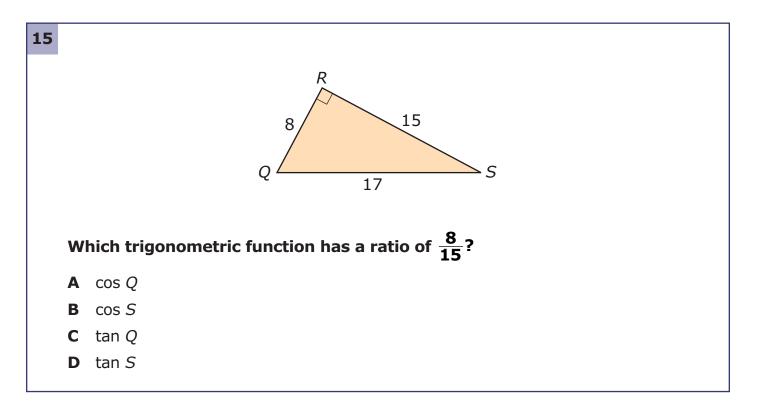
- **F** 7 miles
- G 10 miles
- H 16 miles
- J 19 miles





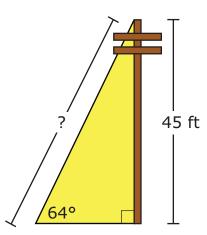






GO ON 🕨

16 A wire is attached to the top of a 45-foot telephone pole and anchored to the ground. The angle of elevation is 64 degrees.

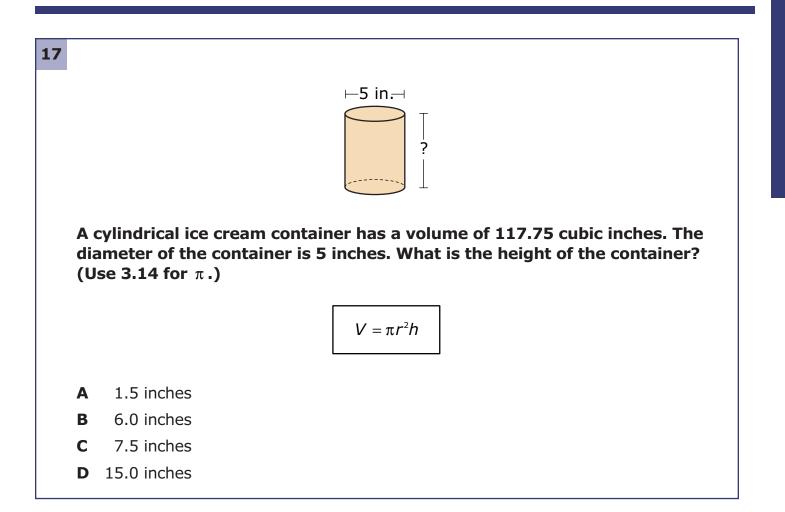


How long is the wire to the nearest foot?

- **F** 50 ft
- **G** 64 ft
- **H** 78 ft
- **J** 106 ft









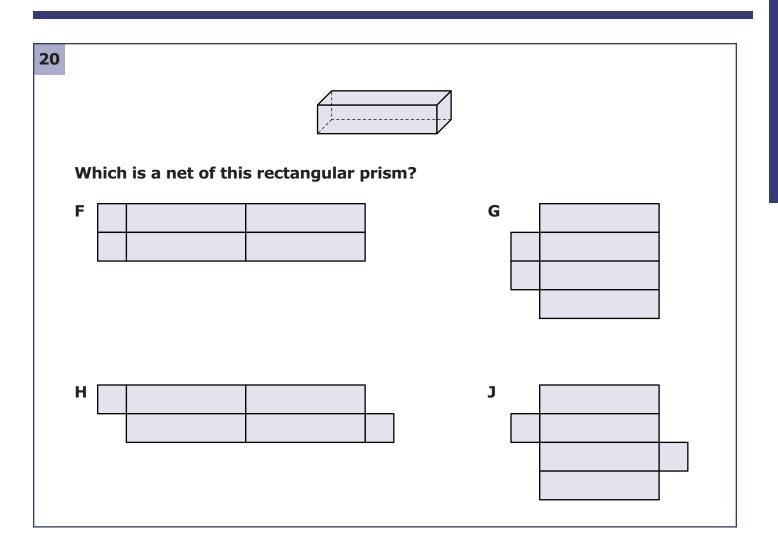
18 The square base of a pyramid has a length of 10 centimeters. The slant height of the pyramid is 13 centimeters. The height of the pyramid is 12 centimeters. What is the volume of the pyramid?

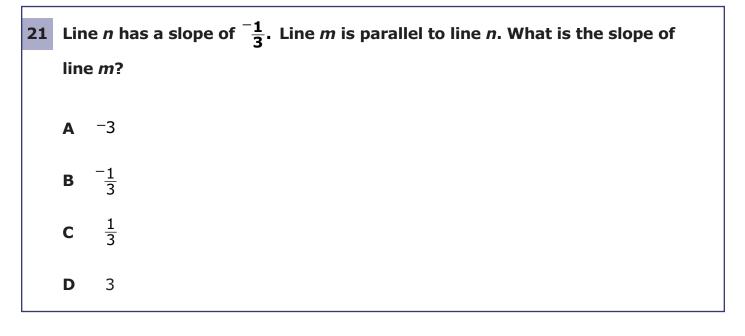
$$V = \frac{1}{3}Bh$$

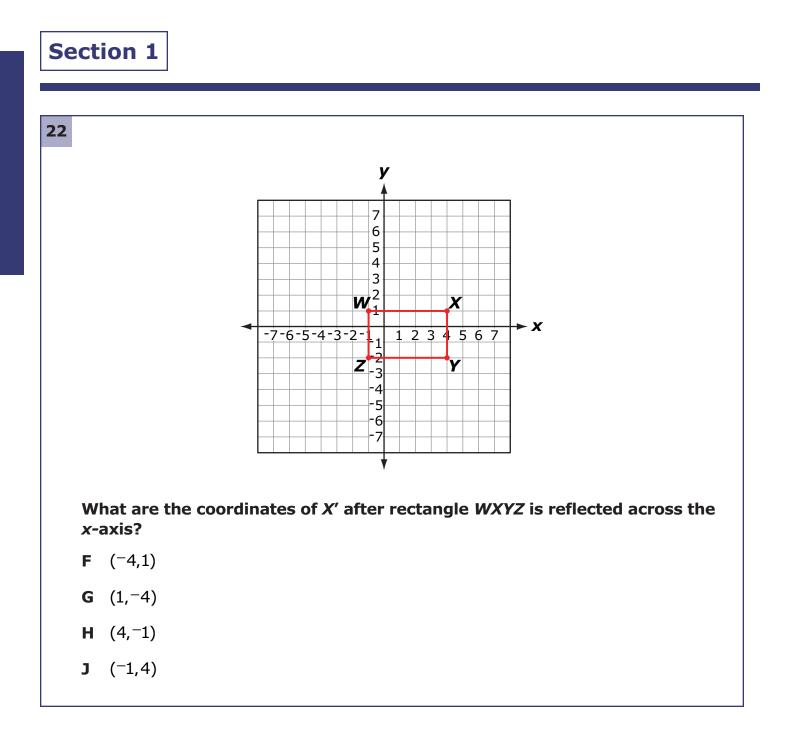
- **F** 100 cm^3
- **G** 260 cm³
- **H** 360 cm³
- **J** 400 cm³

19	Two similar prisms have heights 6 centimeters and 10 centimeters. What is the ratio of their volumes?		
	Α	3:5	
	В	9:15	
	С	9:25	
	D	27:125	



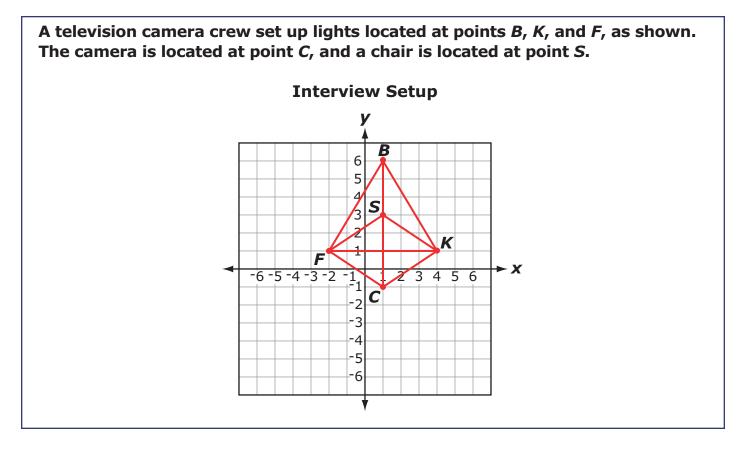




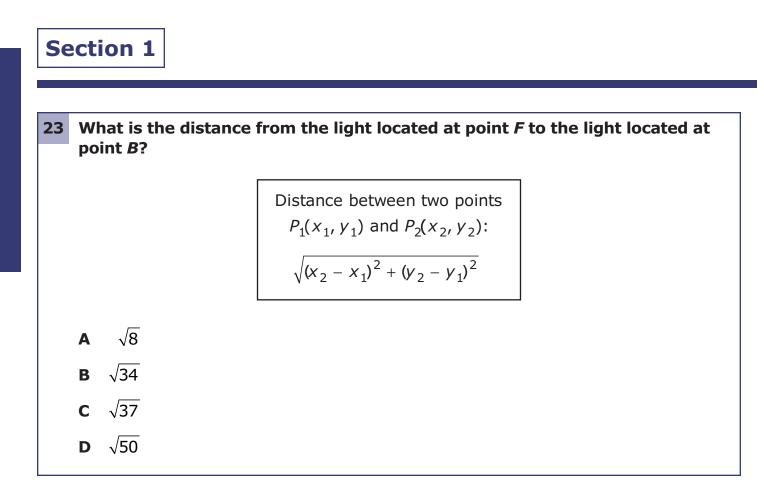




Use the information below to answer Numbers 23 through 25.







24	The lights, camera, and chair are situated so that quadrilateral <i>FSKC</i> is a rhombus. Which statement must also be true?		
	F	$\overline{KF} \cong \overline{SC}$	
	G	$m \angle SFC = 90^{\circ}$	
	н	$\Delta SFC \cong \Delta SKC$	
	J	2(<i>m∠KCS</i>) = 90°	



25	\overline{FC} is parallel to \overline{SK} , and \overline{FS} is parallel to \overline{KC} . If the measure of $\angle KCS$ is about 56°, what is the approximate measure of the complement of $\angle FSC$?		
	Α	34°	
	В	45°	
	С	56°	
	D	124°	



STOP END OF SECTION 1

