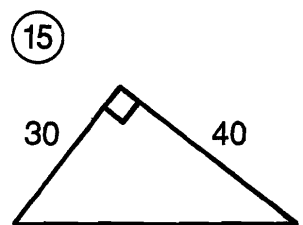
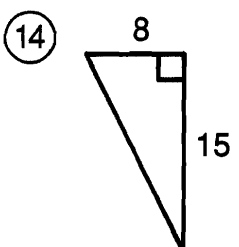
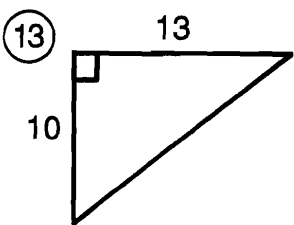
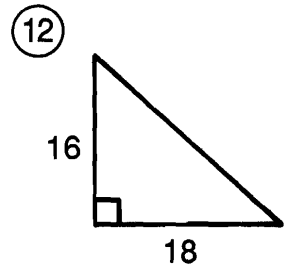
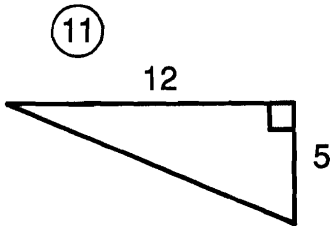
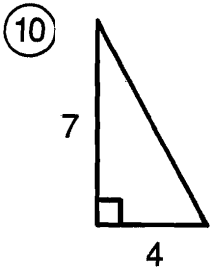
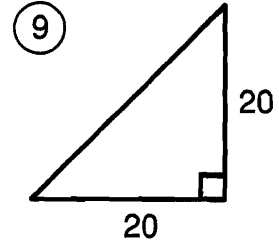
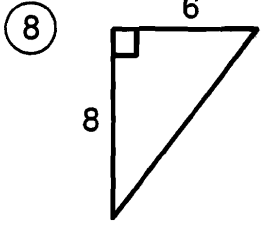
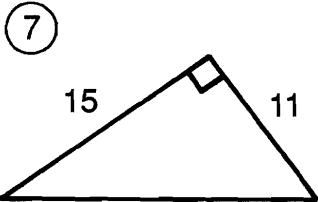
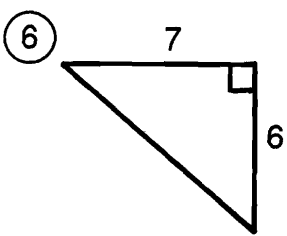
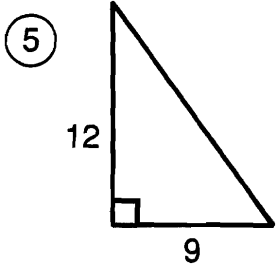
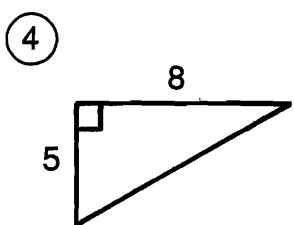
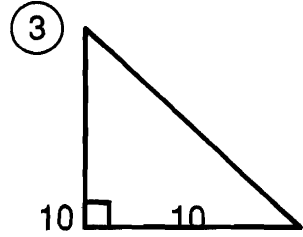
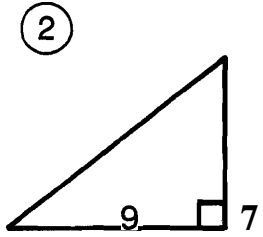
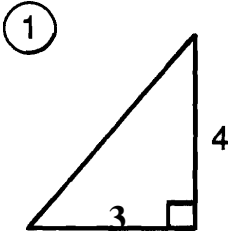


# Why Do Adults Complain So Much?

Find the length of the hypotenuse of each right triangle below. Find your answer in the answer column. Write the letter of the answer in the **box** containing the number of the exercise.



## Answers

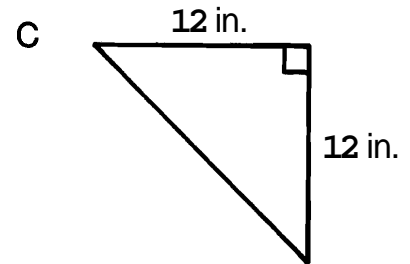
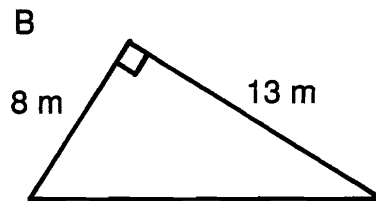
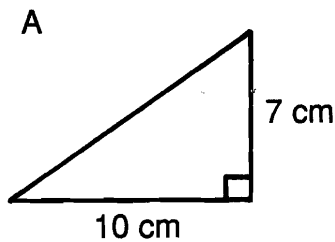
- (E)  $\sqrt{85} \approx 9.2$
- (D)  $\sqrt{562} \approx 23.7$
- (Y)  $\sqrt{169} = 13$
- (O)  $\sqrt{130} \approx 11.4$
- (U)  $\sqrt{289} = 17$
- (T)  $\sqrt{225} = 15$
- (H)  $\sqrt{800} \approx 28.3$
- (E)  $\sqrt{25} = 5$
- (N)  $\sqrt{580} \approx 24.1$
- (R)  $\sqrt{2,500} = 50$
- (S)  $\sqrt{346} \approx 18.6$
- (P)  $\sqrt{89} \approx 9.4$
- (L)  $\sqrt{275} \approx 16.6$
- (G)  $\sqrt{65} \approx 8.1$
- (A)  $\sqrt{200} \approx 14.1$
- (R)  $\sqrt{269} \approx 16.4$
- (A)  $\sqrt{100} = 10$

5	9	1	11	3	13	6	10	15	2	8	12	14	4	7
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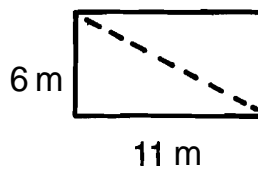
# How Would You Describe a Dead Skunk?

Round each answer to the nearest tenth (if necessary). Find each answer at the bottom of the page and cross out the letter above it. When you finish, the answer to the title question will remain.

- 1 Find the length of the hypotenuse of each right triangle.



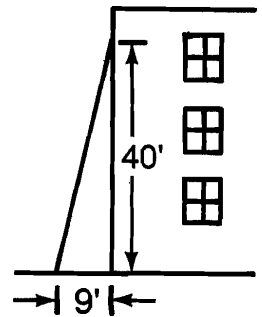
- 2 A rectangle is 6 m wide and 11 m long. How long is the diagonal of the rectangle?



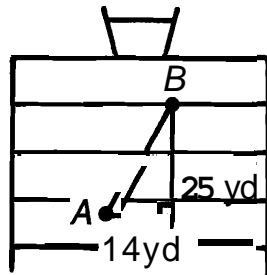
- 6 Kristin and her family left their campsite for a hike. They hiked 5 mi west and then 2 mi north. How far were they from the campsite?

- 3 A television screen may be described in terms of the diagonal measure of its screen. If a TV screen is 20 in. wide and 15 in. high, what is the length of its diagonal?

- 7 The window of a burning building is 40 feet above the ground. The base of a ladder is placed 9 feet from the building. How long must the ladder be to reach the window?



- 4 A quarterback at point A throws the football to a receiver who catches it at point B. How long was the pass?



- 8 The bases on a baseball diamond are 90 feet apart. How far is it from home plate to second base?

- 5 A rope is stretched from the top of a 7-foot tent pole to a point on the ground 12 ft from the base of the pole. How long is the rope?

- 9 The lawn in front of Pythagoras Jr. High is in the shape of a rectangle 24 m long and 10 m wide. How many meters shorter is your walk if you walk diagonally across the lawn rather than along two sides of it?

D	E	S	A	X	D	T	N	O	I	S	N	T	A	C	K	T	E
5.4 i	29. yd	15. m	8 m	13.2 m	12.5 m	16.7 in.	41 ft	12.2 cm	6.1 mi	13.9 ft	42.5 ft	127.3 f	28.7 yd	14.4 ft	17.0 in.	129.8 tf	25 in.

# Cryptic Quiz

1. What is the opposite of a professional eater?

8.8 19.6 18.5 8.8 10.9 8.8 3.3 9.8 70.7 1.4 70.7 14.5

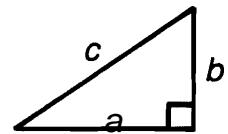
2. How would you describe a job in the Acme Mitten Co. shipping department?

22.4 16.1 19.2 5 19.6 6 68 6 8 16.1 9.2 70.7 6.3

3. What can be right but never wrong?

8.8 19.6 7.4 8.8 19.6 6 8 70.7

For each exercise, find the missing length. (Refer to the diagram at the right.) Round your answer to the nearest tenth (if necessary) and find it in the code. Each time the answer appears, write the letter of the exercise above it.



(H)  $a = 9, b = 4, c = \underline{\hspace{2cm}}$

(E)  $a = 50, b = 50, c = \underline{\hspace{2cm}}$

(O)  $a = 8, b = 14, c = \underline{\hspace{2cm}}$

(B)  $a = \underline{\hspace{2cm}}, b = 20, c = 30$

(S)  $a = \underline{\hspace{2cm}}, b = 3, c = 7$

(V)  $a = 6, b = \underline{\hspace{2cm}}, c = 11$

(M)  $a = \underline{\hspace{2cm}}, b = 5, c = 12$

(W)  $a = 1, b = 1, c = \underline{\hspace{2cm}}$

(G)  $a = \underline{\hspace{2cm}}, b = 8, c = 10$

(X)  $a = \underline{\hspace{2cm}}, b = 16, c = 25$

(C)  $a = 5, b = \underline{\hspace{2cm}}, c = 6$

(A)  $a = 2, b = \underline{\hspace{2cm}}, c = 9$

(R)  $a = 4, b = \underline{\hspace{2cm}}, c = 15$

(L)  $a = \underline{\hspace{2cm}}, b = 15, c = 17$

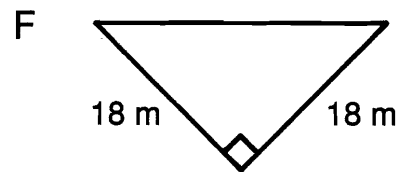
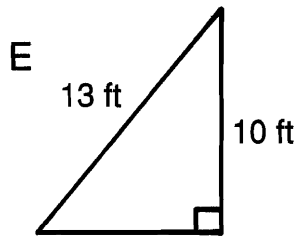
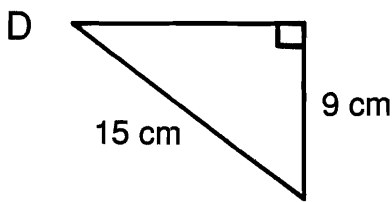
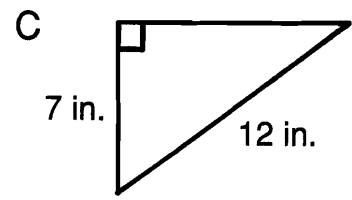
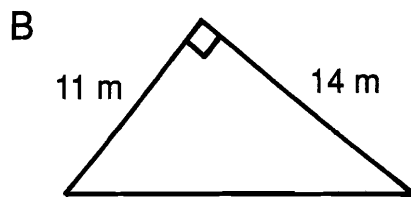
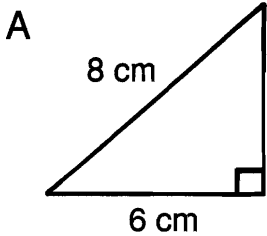
(I)  $a = 12, b = \underline{\hspace{2cm}}, c = 13$

(N)  $a = 10, b = \underline{\hspace{2cm}}, c = 22$

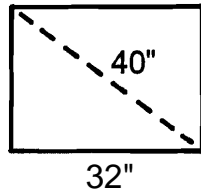
# What Relation Is a Doorstep to a Doormat?

Round each answer to the nearest tenth (if necessary). Cross out the box containing each answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

① For each right triangle, find the length of the side that is not given.



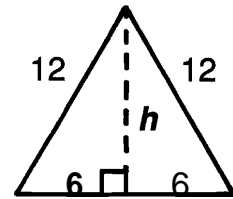
② Yuki just bought a big-screen TV set. The screen has a diagonal measure of 40 in. If the screen is 32 in. wide, how high is it?



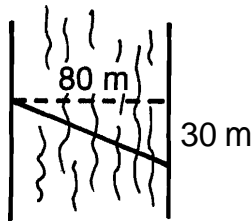
③ The mast of a sailing ship is 20 ft tall. A rope is stretched 26 ft from the top of the mast to a cleat on the deck of the ship. How far is the cleat from the base of the mast?

④ A 25-foot ladder is leaned against a wall. If the base of the ladder is 7 ft from the wall, how high up the wall will the ladder reach?

⑥ Each side of an equilateral triangle measures 12 cm. Find the height,  $h$ , of the triangle.



④ Across a 80-meter river, the current carried him 30 m downstream. How far did he swim?



⑦ Two jets left an airport at the same time. One traveled east at 300 miles per hour. The other traveled south at 400 miles per hour. How far apart were the jets at the end of an hour?

PL 85.4 m	DO 12 cm	AS 9.8 cm	OR 24 in.	MA 500 mi	TE 26 in.	AM 5.3 cm	RU 10.4 cm	PF 520 mi
ON 25.5 in.	AR 9.4 in.	UN 17.8 m	PA 16.6 ft	TH 87.1 m	IN 9.7 in.	AT 24 ft	ER 18.5 ft	AN 8.3 ft

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