Answer Key

As the Cat Dressed Up as a Cowboy Walked into a Saloon with His Arm in a Sling, What Did He Say?

Find each answer in the appropriate set of boxes at the bottom of the page.
Write the letter of the exercise in the box containing the answer.

I. Find the length of one side (***s***) of each square.

(I) Area $25\ m^2$ — s = 5 m

(O) Area $64\ cm^2$ — s = 8 cm

(M) Area $400\ ft^2$ — s = 20 ft

II. Find the square root.

(T) $\sqrt{49} = 7$ (O) $\sqrt{16} = 4$ (E) $\sqrt{100} = 10$ (N) $\sqrt{81} = 9$

(R) $\sqrt{36} = 6$ (O) $\sqrt{4} = 2$ (I) $\sqrt{144} = 12$ (G) $\sqrt{1} = 1$

(H) $\sqrt{900} = 30$ (L) $\sqrt{2{,}500} = 50$ (F) $\sqrt{6{,}400} = 80$ (K) $\sqrt{10{,}000} = 100$

III. Simplify.

(O) $15^2 = 225$ (W) $11^2 = 121$ (T) $25^2 = 625$

(A) $\sqrt{225} = 15$ (O) $\sqrt{121} = 11$ (W) $\sqrt{625} = 25$

(N) $\sqrt{16} + \sqrt{9} = 4 + 3 = 7$ (A) $\sqrt{36} + \sqrt{64} = 6 + 8 = 14$ (M) $\sqrt{25} - \sqrt{9} = 5 - 3 = 2$

(S) $\sqrt{16 + 9} = \sqrt{25} = 5$ (M) $\sqrt{36 + 64} = \sqrt{100} = 10$ (H) $\sqrt{25 - 9} = \sqrt{16} = 4$

(Y) $\sqrt{0.25} = 0.5$ (H) $\sqrt{0.81} = 0.9$ (P) $\sqrt{0.01} = 0.1$

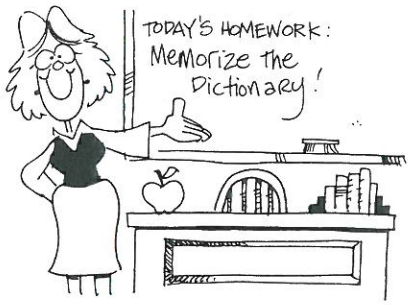
Answers for Part I and Part II

12	20	11	50	4	2	100	5	9	1	60	80	8	6	3	7	30	10	90
I	M		L	O	O	K	I	N	G		F	O	R		T	H	E	

Answers for Part III

2	14	7	18	121	0.9	225	12	5	4	11	625	0.4	10	0.5	715	0.1	15	25
M	A	N		W	H	O		S	H	O	T		M	Y		P	A	W

Why Did the Teacher Assign Extra Homework When She Taught Adolescents?



Find which two consecutive whole numbers the square root is between. Write the letter of the exercise on the number line between these two numbers.

Use the top number line for the first set of exercises, and the bottom number line for the rest.

(S) $\sqrt{30}$ $\sqrt{36}=6$ $\sqrt{25}=5$

(H) $\sqrt{2}$ $\sqrt{1}=1$ $\sqrt{4}=2$

(T) $\sqrt{45}$ $\sqrt{36}=6$ $\sqrt{49}=7$

(E) $\sqrt{8}$ $\sqrt{4}=2$ $\sqrt{9}=3$

(A) $\sqrt{23}$ $\sqrt{16}=4$ $\sqrt{25}=5$

(N) $\sqrt{120}$ $\sqrt{100}=10$ $\sqrt{121}=11$

(G) $\sqrt{138}$ $\sqrt{121}=11$ $\sqrt{144}=12$

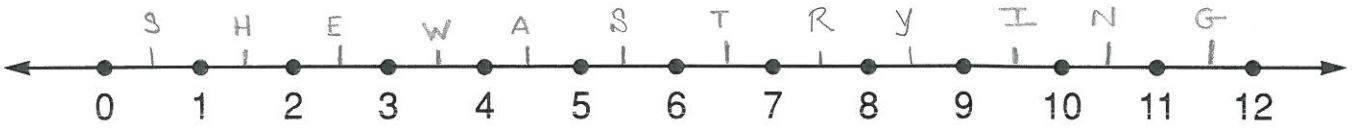
(I) $\sqrt{82}$ $\sqrt{81}=9$ $\sqrt{100}=10$

(W) $\sqrt{11}$ $\sqrt{9}=3$ $\sqrt{16}=4$

(Y) $\sqrt{70}$ $\sqrt{64}=8$ $\sqrt{81}=9$

(S) $\sqrt{0.5}$ $\sqrt{0}=0$ $\sqrt{1}=1$

(R) $\sqrt{59}$ $\sqrt{49}=7$ $\sqrt{64}=8$



(S) $\sqrt{75}$ $\sqrt{64}=8$ $\sqrt{81}=9$

(D) $\sqrt{20}$ $\sqrt{16}=4$ $\sqrt{25}=5$

(O) $\sqrt{3}$ $\sqrt{1}=1$ $\sqrt{4}=2$

(A) $\sqrt{6}$ $\sqrt{4}=2$ $\sqrt{9}=3$

(E) $\sqrt{52}$ $\sqrt{49}=7$ $\sqrt{64}=8$

(S) $\sqrt{95}$ $\sqrt{81}=9$ $\sqrt{100}=10$

(O) $\sqrt{112}$ $\sqrt{100}=10$ $\sqrt{121}=11$

(N) $\sqrt{125}$ $\sqrt{121}=11$ $\sqrt{144}=12$

(D) $\sqrt{14}$ $\sqrt{9}=3$ $\sqrt{16}=4$

(T) $\sqrt{0.1}$ $\sqrt{0}=0$ $\sqrt{1}=1$

(A) $\sqrt{33}$ $\sqrt{25}=5$ $\sqrt{36}=6$

(L) $\sqrt{40}$ $\sqrt{36}=6$ $\sqrt{49}=7$