Why Are Scales Like Roadmaps?

Do each exercise and find your answer in the set of answers to the right, Write the letter of the answer in the box containing the number of the exercise. If the answer has a ●, shade in the box instead of writing a letter in it.

I. Answer each question.

(1) How many mm are in 1 cm? _____

(2) How many cm are in 1 m? _____

(3) How many m are in 1 km? _____

Answers 1 – 3:

(T)	10	(H)	100
(E)	1,000	(R)	10,000

II. Complete each statement. You are changing each measure to a smaller unit.

(4) 2.75 m = _____ cm

(5) 8.3 m = _____ cm

(6) 41.9 cm = _____ mm

(7) 6.25 cm = _____ mm

(8) 1.875 km = _____ m

(9) 27.5 km = _____ m

(10) 0.4 m = _____ cm

(11) 3.666 m = _____ dm

Answers 4 – 11:

(U)	3,666	(S)	27,500
(R)	6,250	(E)	830
●	419	(K)	2.75
(T)	40	(G)	1,875
(W)	275	(D)	41,900
(L)	18.75	(H)	62.5
●	36.66	(C)	4,000

III. Complete each statement. You are changing each measure to a larger unit.

(12) 12.5 mm = _____ cm

(13) 94 mm = _____ cm

(14) 375 m = _____ km

(15) 88 m = _____ km

(16) 643 cm = _____ m

(17) 2.5 cm = _____ m

(18) 250 mm = _____ dm

(19) 5,000 m = _____ km

Answers 12 – 19:

(H)	0.375	(R)	0.094
(Q)	0.25	(W)	5
(P)	500	(O)	1.25
●	6.43	(E)	0.088
(H)	2.5	●	37.5
(Y)	9.4	(U)	0.0643
(A)	8.8	(I)	0.025

10	2	5	13	16	9	18	12	4	6	1	7	15	11	19	3	17	8	14

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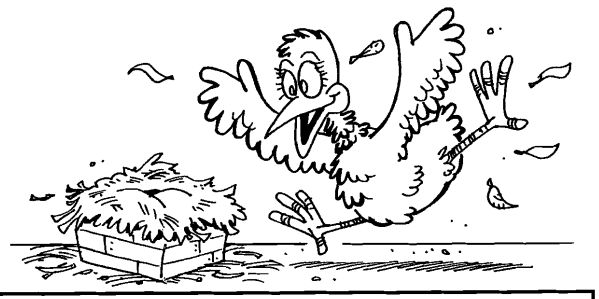
Why Did the Hen Jump Up and Down When She Looked Into the Nest?



Complete each statement, then find your answer in the set of answers to the right.
Write the letter of the exercise in the box containing the number of the answer.

(G)	3.8 m	= _____	dm	Answers			
(T)	3.8 m	= _____	cm	(2) 380	(24) 3,800		
(M)	3.8 m	= _____	mm	(17) 38	(5) 38,000		
(A)	490 cm	= _____	dm				
(N)	490 cm	= _____	m	(26) 0.49	(29) 0.049		
(T)	490 cm	= _____	hm	(21) 4.9	(5) 49		
(1)	27.5 m	= _____	cm				
(M)	27.5 m	= _____	dam	(26) 2.75	(20) 2,750		
(N)	27.5 m	= _____	km	(25) 275	(9) 0.0275		
(H)	9.3 dm	= _____	mm				
(I)	9.3 dm	= _____	cm	(1) 93	(8) 9,300		
(G)	9.3 dm	= _____	m	(22) 0.93	(18) 930		

(S)	0.08 km	= _____	hm	Answers			
(O)	0.08 km	= _____	m	(25) 80	(13) 8,000		
(G)	0.08 km	= _____	cm	(3) 800	(6) 0.8		
(A)	7,400 cm	= _____	mm				
(I)	7,400 cm	= _____	m	(23) 7.4	(27) 0.074		
(E)	7,400 cm	= _____	km	(16) 74	(8) 74,000		
(W)	60 dam	= _____	km				
(G)	60 dam	= _____	m	(4) 0.6	(28) 60,000		
(N)	60 dam	= _____	cm	(12) 600	(7) 6,000		
(E)	1,000 mm	= _____	cm				
(S)	1,000 mm	= _____	m	(15) 1	(23) 10		
(T)	1,000 mm	= _____	km	(11) 100	(19) 0.001		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

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What Did the Finger Say to the Thumb?

Choose the correct answer for each exercise. Write the letter of the answer in the box containing the number of the exercise. The table below may help you.

Unit	Approximate Size
1 milliliter (mL)	capacity of an eyedropper
1 liter (L)	capacity of a juice carton
1 kiloliter (kL)	capacity of 4 bathtubs

I. Choose the more reasonable estimate of capacity.

(1) a pot for cooking
K 2 kL **E** 2 L

(2) a tablespoon
C 15 L **I** 15 mL

(3) an automobile gas tank
N 50 L **P** 5 kL

(4) a swimming pool
A 80 L **O** 80 kL

(5) a drinking glass
O 25 mL M 250 mL

(6) a water cooler jug
H 20 L **R** 2 L

II. Complete each statement.

(7) 8.5 L = _____ mL

(8) 0.4 L = _____ mL

(9) 90,000 mL = _____ L

(10) 250 mL = _____ L

(11) 1.75 kL = _____ L

(12) 40 kL = _____ L

(13) 750 L = _____ kL

(14) 3,200 L = _____ kL

Answers 7 – 14:

B	25	**Y**	90
U	1,750	**W**	40,000
O	8,500	**F**	32
D	4,000	**I**	0.75
S	900	**R**	175
G	0.25	**I**	400
T	3.2	**U**	7.5

III. Solve.

(15) Ms. Sparkle bought **12** cans of diet soda. Each can contained 350 mL. How many liters of soda did she buy?

(16) Chef Pierre made 6.4 L of creamed carrot soup. If it is served in 200-mL cups, how many cups can be filled?

Answers 15 – 16:

R	48	**V**	**4.2**
L	32	**N**	5.4

8	5		13	3		10	16	7	15	1		12	2	14	6		9	4	11

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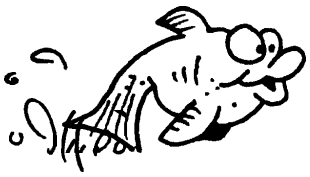
What Do Salmon and Cod Use When They Go to War?

Choose the correct answer for each exercise. Find the letter of the answer in the string of letters near the bottom of the page and CROSS IT OUT each time it appears. When you finish, write the remaining letters in the rectangle at the bottom of the page. The table below may help you.



Unit	Approximate Size
1 milligram (mg)	mass (weight) of a grain of sand
1 gram (g)	mass (weight) of a paperclip
1 kilogram (kg)	mass (weight) of a math textbook

I. Choose the more reasonable estimate of weight.

(1) a nickel
(M) 5 g (N) 5 kg

(2) a postage stamp
(A) 60 g (Y) 60 mg

(3) a bowling ball
(B) 7 kg (K) 70 kg

(4) a lemon
(X) 12 g (W) 120 g

(5) a 12-year-old child
(Z) 40 kg (I) 4 kg

(6) a postcard
(Q) 75 g (G) 750 mg

II. Complete each statement.

(7) 6.5 g = _____ mg

(8) 0.8 g = _____ mg

(9) 4,900 mg = _____ g

(10) 133 mg = _____ g

(11) 7.25 kg = _____ g

(12) 60 kg = _____ g

(13) 250 g = _____ kg

(14) 80,000 g = _____ kg

Answers 7 – 14:

(H) 490 (L) 0.133
(J) 800 (C) 60,000
(T) 725 (V) 6,500
(F) 2.5 (K) 13.3
(P) 4.9 (U) 7,250
(S) 0.6 (D) 80
(E) 0.25 (I) 65

III. Solve.

(15) An average orange weighs 270 g. How many kilograms does a bag of 8 oranges weigh?

(16) A vitamin tablet weighs **1.2**g. It contains **150** mg of Vitamin C and 250 mg of B Complex vitamins. How many milligrams of other ingredients are in the tablet?

Answers 15 – 16:

(T) 1.96 (O) 800
(F) 920 (R) 2.16

B R Y L F E G O I P M C S O D H W T R B G A L O N Z U K V E S J

Answer to puzzle:

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© Creative Publications MIDDLE SCHOOL MATH WITH PIZZAZZ! BOOK D

Why Did the Ice Skater Tell Jokes While Performing?

Do each exercise and find your answer in the set of answers to the right. Write the letter of the answer in each box containing the number of the exercise. If the answer has a ●, shade in each box containing that exercise number.

I. Complete each statement.

(1) 8.3 kg = _____ g

(2) 830 mg = _____ g

(3) 27.5 g = _____ mg

(4) 2,750 g = _____ kg

(5) 4,000,000 mg = _____ kg

(6) 0.66 kL = _____ L

(7) 66,000 mL = _____ L

(8) 3.09 L = _____ mL

(9) 30.9 L = _____ kL

(10) 0.04 kL = _____ mL

Answers 1 – 10:

(C) 309	(V) 400	(U) 660
(O) 2.75	(T) 8,300	(K) 40,000
(A) 3,090	● 6.6	(I) 27,500
(G) 66	(W) 4	(J) 0.0309
(E) 0.83	(M) 275	(F) 83

II. Solve.

(11) A jar of sweet pickles contains 650 g of pickles. There are 12 jars in a case. How many kilograms of pickles are in a case? _____ kg

(12) A large can of frozen orange juice contains 354 ml. To make orange juice, you add 3 full cans of water. How many liters of orange juice does this make? _____ L

(13) A costume designer bought 1.5 kg of colorful sequins. She used 250 g of sequins to make a crown and 400 g to make a cape. How many grams of sequins were left? _____ g

(14) Mrs. Sipp has 4.6 L of lemonade to serve her son's 20 birthday guests. About how many milliliters should she pour into each glass? _____ mL

(15) A gasoline can was filled with 17.5 L of gasoline. A lawnmower fuel tank that holds 1.4 L has been filled 8 times from the gasoline can. How much gasoline is left in the can? _____ L

(16) ABC Corporation is mailing a report to stockholders. The report includes a cover and 100 sheets of paper. If the cover weighs 0.2 kg and each sheet of paper weighs 5 g, how much does the report weigh? _____ g

Answers 11 – 16:

(C) 5.8	(B) 8.4
(P) 840	(R) 1.416
(N) 230	(S) 700
● 620	(F) 280
(H) 7.8	● 750
(D) 6.3	(L) 1.606

●	16	11	2	13	5	8	16	13	9	6	16	1	13	16	10	3	15	15	3	14	7	13	8	12	4	6	14	15	●

A	S	H	T	R	O	P	E	N	T	A	X	U	B	E	D	C	O	H	W	B	O	N	Y	K	R	S	E
14 min 30 s	1; 55	15 min 26 s	3 d 15 h	420	3 min 28 s	6 h 28 min	3	6 h 15 min	4 min 40 s	3,920	72	240	2 d 17 h	3 min 42 s	1; 20	12 h 28 min	9 h 51 min	310	12 h 42 min	14 min 56 s	9	4,320	11 h	10 h 58 min	150	6 h 40 min	2; 15

What Should You Study to Learn How to be a Cowboy?

Cross out the letter next to each correct **answer.** When you finish, the answer to the title question will remain.

I. Complete each statement.

(1) 4 h = _____ min

(2) 7 min = _____ sec

(3) 2 h 30 min = _____ min

(4) 5 min 10 sec = _____ sec

(5) 180 min = _____ h

(6) 540 sec = _____ min

(7) 80 min = _____ h _____ min

(8) 135 sec = _____ min _____ sec

(9) 3 d = _____ h

(10) 3 d = _____ min

II. Add or subtract. Simplify if possible.

(11) 2 h 30 min + 3 h 45 min

(12) 5 min 40 s + 8 min 50 s

(13) 7 h 8 min + 2 h 43 min

(14) 8 min 10 s − 3 min 30 s

(15) 12 h 25 min − 5 h 45 min

(16) 32 min 50 s − 17 min 24 s

(17) 6 h 47 min + 4 h 13 min

(18) 9 min − 5 min 32 s

(19) 5 d 4 h − 2 d 11 h

III. Solve.

(20) It takes 15 h 20 min to travel from Los Angeles to Salt Lake City by train. It takes only 2 h 38 min to fly between the two cities. How much longer does the train take?

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