

What Did the Detectives Say to the Crook?

Solve each problem and find your solution in the answer column. Note the two letters next to it. Write these letters in the two boxes above the exercise number at the bottom of the page.

1 To make his sp	pecial salad dressing the 4 fl oz of vinegal at, so he used 8 fl on the sed?	One day he	ombines	000	DOOO answers
1 To make his sp	th 4 fl oz of vinegar it, so he used 8 fl o	One day he	ombines	9	answers
7 5 1	th 4 fl oz of vinegar it, so he used 8 fl o	One day he	boboon	/ - V	
		Z OI OH. ITOW		SIT] 153.4 min
vinegar did he	4. 4.11		and Oal	W E	36
2 The ratio of her	ight to width for a ' screen that is 30 in	IV screen is 9 . wide?	to 16.	ES	4.9 in.
16.	9 in The ratio of the nu	~	XXIII	ET	2.3 gal
of teeth on Ges	ur A to the number B is 5 to 12. How	of \nearrow	0 \$ (O DR	1
teeth are on Ge	ear B? e teeth on Gear A.)	A	with.		1
36	7 7	1.6	В *		3 qt
used 17.4 gal o	d her gas mileage a of gas to travel 392	na iouna tha mi. At this ra	t she had		4.6 fl oz
many gallons w	vill she use to trave			T H	42
	ace of 2,735 mi?	1.4 gal		O M	121.4 gal
5 If there are 95 part is in 3 oz of	g of fat in 16 oz of g ground beef?	ground beef, l	now much	AN	2.5 gal
. ***	11	· o g		O OU	3.5 in.
designer makes	56 ft long and 11 to a model that is 18	t wide. A spe	ecial effects		1997
should it be?	3.5 in	200	· · · · · · · · · · · · · · · · · · ·	GO	5.2 fl oz
7 The Screaming	Equals' team color	is made by n	niving red	S AR	150.2 min
paint with blue	paint in a ratio of	12 to 7. How	much (TY	16.9 in.
blue paint shou	ald be mixed with 4	gal of red?	(9 HE M	2.8 qt
8 A marathon run	nner ran the first 3	mi in 17.2 m	in. If she		
continues runn	ing at this pace, h	ow long will it	t take her (O EP	17.8 g
to run the entir	e marathon of 26.2	2 mi?	() EE	0.2 cm
9 SOLAR SYSTEM	M MODEL. The sur				124.5 gal
870,000 mi. Th	ne Earth has a diar r basketball is used	neter of 8,000	mi. If a		12210 841
should be the d	liameter of the mod	l as a model s lel Earth?	un, wnat	900(000
70 TC 18 1 1 1 5 C	. a cm		15 ft		24 ft
10 If it took 1.5 qt	of paint to paint to many quarts will	Anna Anna Anna Anna Anna Anna Anna Anna	MONROW	O ft	
needed to paint	the wall on the rig	tht? 39t8 fi			
OWIE LIOI	EDALL			1	
NEAR	t POLI	LEI	MEE	TIY	o India

Key

40 pts total

7.7 What Did the Detectives Say to the Crook?

Show all work here. Set up *labeled* proportions for each problem.

		2	
011 7 = 8	y=KX	Height $\frac{9}{16} = \frac{x}{30}$	9=KX
$\frac{011}{\text{Vinegar}} = \frac{7}{4} = \frac{8}{\times}$	7=K(4)	width 16 30	9= K(10)
7x=32	1.75 = K	l6 x = 270	.5625=K
X=4.6f1.02	4=1.75 X		U= .5625×
Vinegar	9-11.73	(X=16.875in)	192,30237
3	Y=KX		11 - K ×
A 5 = 15	5 = k(12)	gallons 17.4 = X Nules 392 = 2735	y=KX
	5/12= K	11.0	174= K (392) 87 = K
5x=180		392x = 47,589	87 = K 1960
X=36 teeth	y= 5/12x	TX = 121.4 gallons	4= 87 1960X
5	y=KX	6	J
grams = $\frac{95}{16} = \frac{x}{3}$	95 = K(16)	length > 56t 18in	y=KX
grams $\rightarrow \frac{95}{16} = \frac{x}{3}$	5.9 = K	width Ilft Xin	56 = K(11)
16x = 285		56x = 198	5.09 = K
x ≈ 17.8 grans	4=5.9 X		y= 5.09 x
7 Tat	J	8 Wide	J
red 12-4	= KX	Miles 3 26.2	y=KX
blue 7 × 12	= K(7)	Miles $\frac{3}{17.2} = \frac{26.2}{\times}$	3 = K(172)
0141	7=K	3x = 450.64	30 - K
128-20	12.	K = 150 minutes	11/2
X=2.3 gallons y=	'77 X	10	y= 172X
9	U- X V		u - V V
Sun _ 870,000 = 24	y= KX	$\frac{Q+s}{5q+t} \rightarrow \frac{1.5}{120} = \frac{\chi}{240}$	y= KX 15 = K(120)
Y AM	870,000 = K (8,1 108.75=K	59ft 120 240	15 = K(120)
		120X = 360	*177 - 1
870,000 X = 192,000 X = 22 cm			U=.125 X
(- L - CW)	1 19=100.13	71	