

Books Never Written

- World's Most Fun Algebra Problems by

5.6 67.5 10.5 10.5 6.9 2.5 4.4 15.8 4.4 13.3 140 140 $\frac{ac}{b}$ 140 4.9 $\frac{ab}{c}$ 2.5

- Your Dad at the Beach - First Aid Tips by

75.4 17.0 70 10.5 13.3 6.1 3.7 20.4 67.5 70 2.5 35.2 12 2.8 17.0 26.7 6.1 70

Find each solution in the code. Each time it appears, write the letter of the exercise above it.

Solve the proportion. Round to the nearest tenth.

$$\mathbf{H} \quad \frac{4}{7} = \frac{n}{12}$$

$$\mathbf{A} \quad \frac{x}{9} = \frac{15}{2}$$

$$\mathbf{N} \quad \frac{8}{a} = \frac{30}{23}$$

$$\mathbf{Y} \quad \frac{5}{16} = \frac{11}{y}$$

$$\mathbf{O} \quad \frac{2.5}{9.2} = \frac{k}{18}$$

$$\mathbf{E} \quad \frac{20}{8.7} = \frac{5.8}{m}$$

$$\mathbf{U} \quad \frac{29}{u} = \frac{75}{44}$$

$$\mathbf{C} \quad \frac{b}{0.6} = \frac{17}{0.5}$$

$$\mathbf{I} \quad \frac{100}{62.5} = \frac{t}{8.3}$$

$$\mathbf{M} \quad \frac{v}{7.5} = \frac{7.5}{10}$$

$$\mathbf{B} \quad \frac{9.47}{p} = \frac{3.33}{1}$$

$$\mathbf{J} \quad \frac{1}{3.14} = \frac{24}{q}$$

Write the sentence as a proportion. Then solve for x.

W x is to 8 as 5 is to 9 **R** 4 is to 3 as x is to 20 **V** x is to a as b is to c

Solve mentally.

A color called Passion Pink is made by mixing red paint and white paint in a ratio of 2 to 7. How many drops of white paint do you need:

S If you use 20 drops of red paint?

L If you use 40 drops of red paint?

T If you use 3 drops of red paint?



What Sort of Monkeys Make the Best Wine?

Kitchen: $4.2 \times 5.5 \text{ cm}$

$$7.0 \times 9.2 \text{ m} \rightarrow 64.4 \text{ m}^2$$

Cloak Room: $1.9 \times 3.0 \text{ cm}$

$$3.2 \times 5.0 \text{ m} \rightarrow 16.0 \text{ m}^2$$

Ballroom: $8.1 \times 11.7 \text{ cm}$

$$13.5 \times 19.5 \text{ m} \rightarrow 263.3 \text{ m}^2$$

Library: $5.5 \times 7.3 \text{ cm}$

$$9.2 \times 12.2 \text{ m} \rightarrow 112.2 \text{ m}^2$$

Grand Hall: $3.0 \times 9.6 \text{ cm}$

$$5.0 \times 16.0 \text{ m} \rightarrow 80 \text{ m}^2$$

Gallery: $3.4 \times 4.8 \text{ cm}$

$$5.7 \times 8.0 \text{ m} \rightarrow 45.6 \text{ m}^2$$

Foyer: $3.4 \times 5.2 \text{ cm}$

$$5.7 \times 8.7 \text{ m} \rightarrow 49.6 \text{ m}^2$$

Sitting Room: $3.4 \times 6.6 \text{ cm}$

$$5.7 \times 11.0 \text{ m} \rightarrow 62.7 \text{ m}^2$$

GRAY APES

7.2

Why Are Astronauts Able to Ride Horses at Night?

- | | |
|---------------|-----------------|
| 1. 43.2 m | 11. \$946 |
| 2. 5.9 mph | 12. \$11.75 / h |
| 3. 27.8 min | 13. 156.25 h |
| 4. 21,120 ft | 14. \$16.80 / h |
| 5. 18,136 mph | 15. 10.5 h |
| 6. 112.5 gal | 16. 3220.4 mi |
| 7. 16.6 L/s | 17. 12.4 km/L |
| 8. 133.3 s | 18. 13.5 L |
| 9. 62.5 min | 19. 523.6 mi |
| 10. 5.6 gal | 20. 44.7 mpg |

THEY HAVE SADDLE LIGHTS

7.4

Books Never Written

- *World's Most Fun Algebra Problems* by MATTHEW WILL LOVE
- *Your Dad at the Beach - First Aid Tips* by JUSTIN CASEY BURNS

- | | | | |
|---------|---------|-------------------|---------|
| H. 6.9 | A. 67.5 | N. 6.1 | Y. 35.2 |
| O. 4.9 | E. 2.5 | U. 17.0 | C. 20.4 |
| I. 13.3 | M. 5.6 | B. 2.8 | J. 75.4 |
| W. 4.4 | R. 26.7 | V. $\frac{ab}{c}$ | |
| S. 70 | L. 140 | T. 10.5 | |

7.6

WHAT DID PEOPLE SAY AFTER IT WAS DISCOVERED THAT EVERY COMPASS MADE BY THE TATES COMPASS CO. WAS DEFECTIVE?

--He who has a Tates is lost.

What Did Scientists Conclude After Discovering Bones on the Moon?

- | | |
|-----------------|--------------------|
| 1. 3.6 in./h | 6a. \$0.48 per can |
| 2. 5.49 gal/min | 6b. \$0.04 per oz |
| 3. 5.8 rps | 7a. \$0.14 per oz |
| 4. 1811 per mi | 7b. \$0.17 per oz |
| 5a. 48.3 mph | 7c. \$0.19 per oz |
| 5b. 0.8 mi/min | 8a. \$38.10 / show |
| 5c. 4249 ft/min | 8b. \$1.59 / min |
| 5d. 70.8 ft/s | 9. 22.7 mpg |
| 5e. 1.24 min/mi | |

THE COW DIDN'T MAKE IT

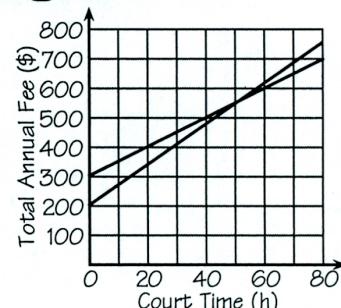
7.3

FUNCTION graFUN

t	Ace	Love
0	200	300
10	270	350
20	340	400
30	410	450
40	480	500
50	550	550
60	620	600
70	690	650
80	760	700

$$F = 200 + 7t$$

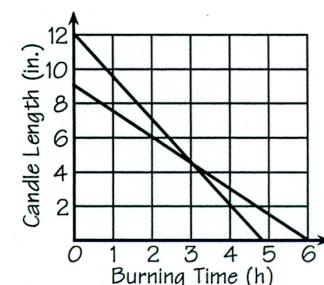
$$F = 300 + 5t$$



t	Red	Blue
0	12.0	9.0
1	9.5	7.5
2	7.0	6.0
3	4.5	4.5
4	2.0	3.0
5	0	1.5
6		0

$$L = 12 - 2.5t$$

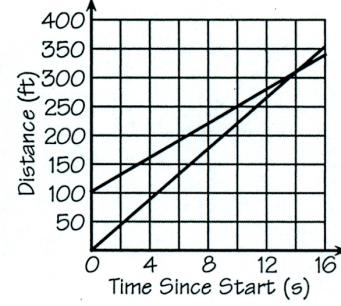
$$L = 9 - 1.5t$$



t	H	Z
0	100	0
2	130	44
4	160	88
6	190	132
8	220	176
10	250	220
12	280	264
14	310	308
16	340	352

$$d = 100 + 15t$$

$$d = 22t$$



7.5