

Valentine's Day Math

1. Melanie has purchased five special valentines that she wants to give to her close friends and family. The cards cost \$1.25, \$1.75, \$2.00, \$1.65, and \$2.50. She also plans to give away two boxes of candy: one costs \$6.95 and the other costs \$3.50.
 - a. How much money will Melanie spend for Valentine's Day? _____
 - b. Melanie has \$25.00 in her piggy bank at home and \$100.00 in the bank. Will she need to take some money out of the bank? If so, how much? _____
 - c. If Melanie doesn't need to remove money from her bank account, how much money will she have left in her piggy bank? _____
 - d. How much money will Melanie have left after Valentine's Day? _____

2. There are 30 students in Mrs. Miller's sixth-grade class. There are 10 girls. Each child puts his/her name on a slip of paper and puts it in a Valentine's box. Two names will be drawn from the box and each child will receive a box of candy.
 - a. What is the probability that a boy's name will be drawn from the box first? (Give a fraction, a ratio, and a percentage.) _____
 - b. Assuming that the first name selected is the most probable sex, what is the probability that a girl's name will be selected the second time? (Give a fraction, a ratio, and a percentage.)

3. Philip has a limited supply of red construction paper at home, and he is supposed to cover a shoebox (including the top) and have a one-inch overlap inside the top and bottom of the box. The shoebox is six inches wide, 12 inches long, and 4 inches high. The top is half an inch high.
 - a. How much paper (in square inches) will it take to cover the box (outer surfaces and overlap area)? _____
 - b. Philip has 4 sheets (8 ½" x 11") of red construction paper. Does he have enough to cover the box? _____
 - c. If so, how much extra paper does he have? _____
 - d. If not, how much more paper does he need? _____

Valentine Word Search

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

arrow
 candy
 card
 Cupid
 doily
 February

flowers
 gift
 heart
 love
 moonlight
 music

party
 red
 romance
 serenade
 sweetheart
 valentine

Decode this Valentine message!

Each letter below stands for a different letter in the alphabet. For example, in this puzzle, every time you see the letter **A** you should write the letter **D** above it.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 C P H U Z O A E J S L U B O D P H U I Z S J O E
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 G Z S A U Z O A G Z O A H X J V I V I B J S
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 K S J B O A U Z O A K Z N J L H P O
 _ _ _ _ _ _ _ _ _ _ _ _ _ _
 W Z L B O V J O B U A Z H

Answer Key *(cont.)*

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- | | |
|-----------------|--------------------|
| 1. Rome, Italy | 11. Australia |
| 2. Suez | 12. Perth |
| 3. Red Sea | 13. northeast |
| 4. Abidjan | 14. 6 time zones |
| 5. Madagascar | 15. Rocky |
| 6. South Korea | 16. Ottawa |
| 7. 10:00 p.m. | 17. Bogota |
| 8. India | 18. Andes |
| 9. Himalaya | 19. Rio de Janeiro |
| 10. 3° N 103° E | |

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John—Jennifer, candy; Sean—Cathy, funny valentine; Chris—Erin, romantic valentine; Steve—Monica, spider; Jason—Lisa, sticker

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England—Valentine Buns; Denmark—gækkebrevs; Italy—Valentine Feast; Canada—Valentine Cards

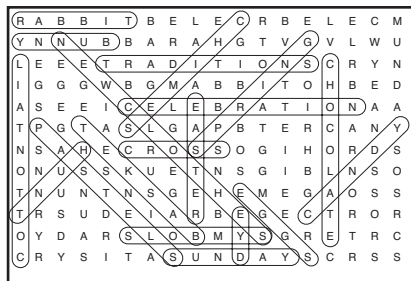
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1st—Ben and Jennifer; 2nd—Ted and Kelly; 3rd—Shawn and Heather; 4th—Jason and Julie; 5th—John and Angie

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- | | |
|------------------------|-----------------------|
| 1. a. \$19.60 | b. no |
| c. yes—\$5.40 | d. \$105.40 |
| 2. a. 2/3; 2:1; 67% | |
| b. 10/29; 10:19; 34.5% | |
| 3. a. 396 sq. inches | c. no answer required |
| b. no | d. 22 square inches |

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Message: Boys and girls enjoy sharing cards and candy with their friends and family on Valentine’s Day.

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Hink Pinks

- heart mart
- marred (or scarred) card
- dandy candy
- stupid Cupid
- funny honey
- serenade parade

“Valentine” Words

Accept reasonable answers. Possibilities include the following:

2-letter words: an, at, in, it

3-letter words: ail, ale, ant, eat, eel, eve, inn, lea, let, lit, net, nit, tan, tea, tee, tie, tin, van, vat, vie, etc.

4-letter words: late, lent, lint, live, neat, tail, tale, teal, tine, vale, veal, vent, vile, vine, etc.

5-letter words: alien, alive, entail, invent, linen, liven, valet, vital, etc.

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clockwise: Velveteen Rabbit, bucked teeth; Funny Bunny, lazy; Peter Rabbit, carrot muncher; Cottontail, superwhiz; Mopsy, busy; Flopsy, droopy ears

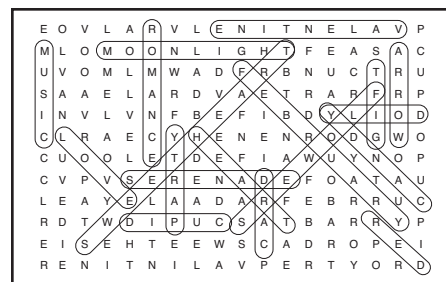
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England—Easter, clipped church; France—Paques, chimes; Italy—Pasqua, Easter cakes; Spain—Pascua, dances

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Greeks—cross; Northern and Central Europeans—bonfires; Persians—eggs; Egyptians—rabbits

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Message: Children enjoy egg hunts and the surprises they find in their baskets on Easter morning.