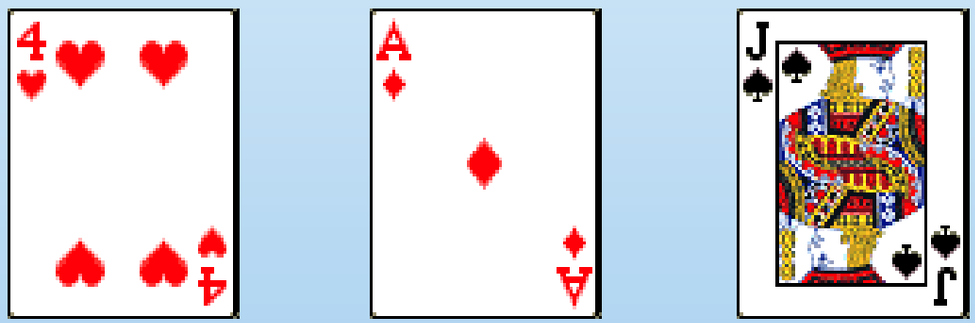
Day 74

1. Opener

a) Solve: $5x^2 + 28x = 12$

b) Does $y = x^2 - 2x - 7$ cross the x-axis once or twice?

c) What's next?



d) What percent of Americans were farmers in 2001? 1901? 1801?

Day 74

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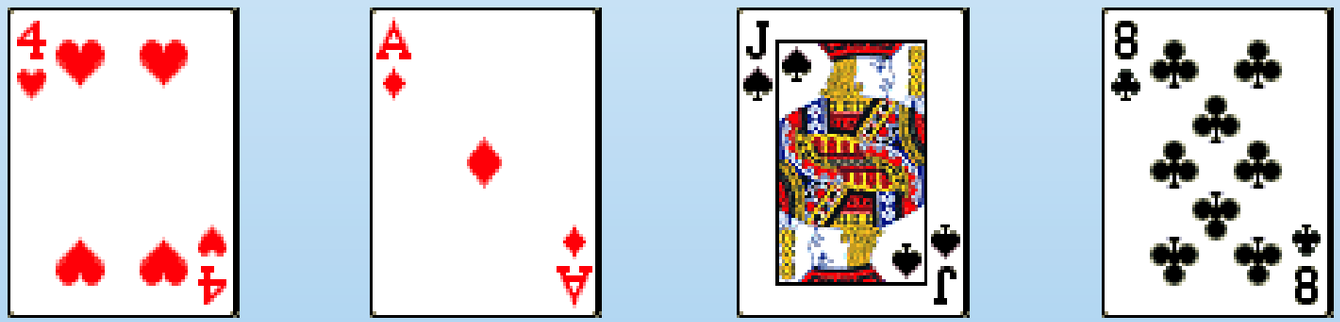

d) What percent of Americans were farmers in 2001? 1901? 1801?


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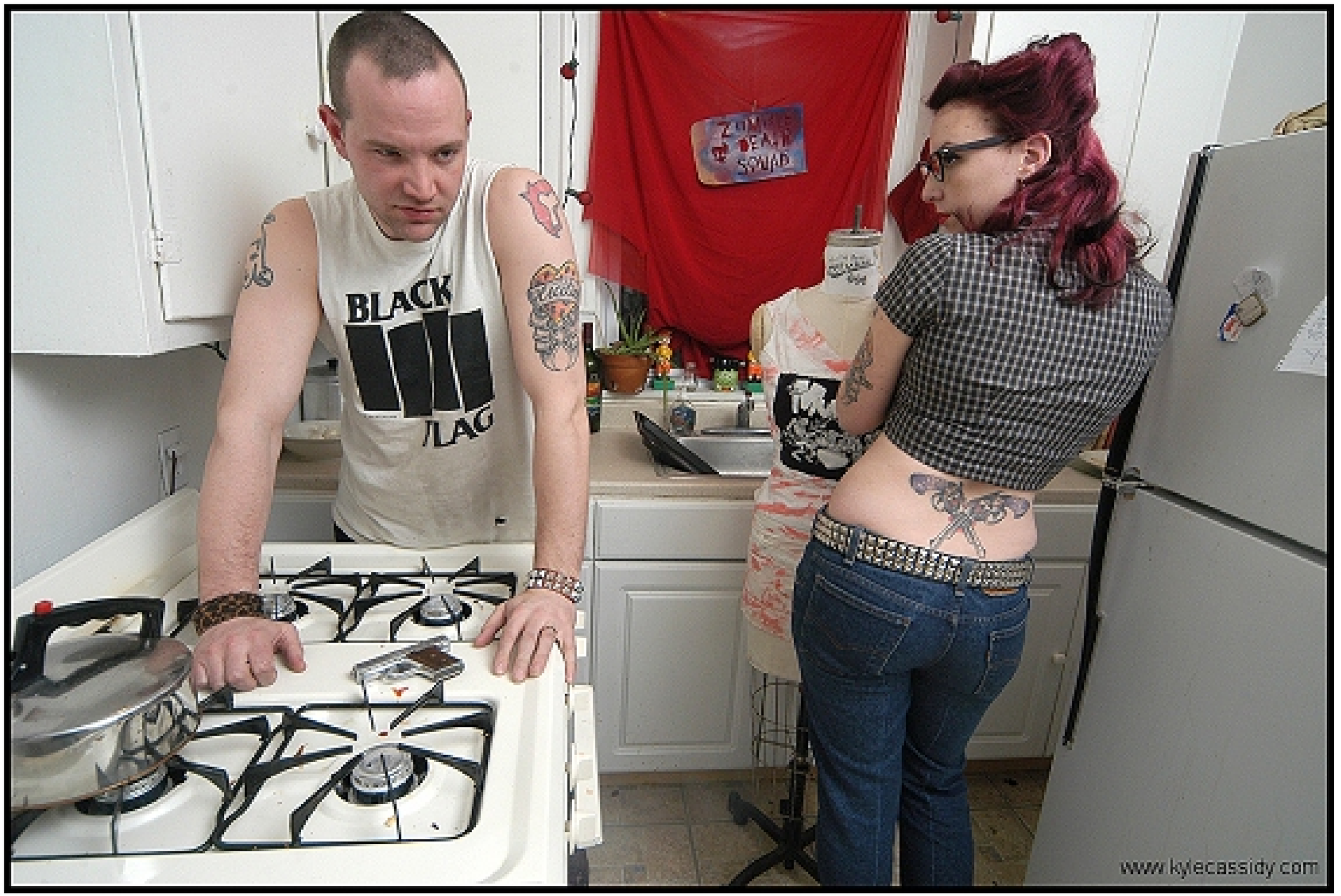
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Friday 4/3/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	48	**81**	67	76	57	**48**							**69**
Sixth	57	**100**	48	**62**	57	**76**	**81**	**76**	33							66

2. Know Your Parabolas!

$$y = x^2 - 2x - 7$$

2. Know Your Parabolas!

$$y = ax^2 + bx + c$$

2. Know Your Parabolas!

$$\frac{-b}{2a}$$

2. Know Your Parabolas!

$$\frac{-b \quad \sqrt{b^2 - 4ac}}{2a}$$

2. Know Your Parabolas!

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2. Know Your Parabolas!

$$y = x^2 - 3x - 6$$

2. Know Your Parabolas!

$$y = 2x^2 - 2x + 7$$

2. Know Your Parabolas!

$$y = 4x^2 + 4x + 1$$

3. Classwork

pg. 466 // #1 - 15

4. Break

5. Show and Tell

6. Know Your Perfect Squares!

$$x^2 + 6x + \quad = (\qquad)^2$$

6. Know Your Perfect Squares!

$$x^2 + 6x + \blacksquare$$

6. Know Your Perfect Squares!

$$x^2 + 6x + 9$$

6. Know Your Perfect Squares!

$$x^2 + 6x + \blacksquare = (\blacksquare)^2$$

6. Know Your Perfect Squares!

$$x^2 + 6x + \blacksquare = (x + 3)^2$$

6. Know Your Perfect Squares!

$$x^2 + 6x + 9 = (x + 3)^2$$

6. Know Your Perfect Squares!

$$x^2 - 10x + \blacksquare = (\blacksquare)^2$$

6. Know Your Perfect Squares!

$$x^2 - 10x + \blacksquare = (x-5)^2$$

6. Know Your Perfect Squares!

$$x^2 - 10x + 25 = (x - 5)^2$$

6. Know Your Perfect Squares!

$$x^2 - 20x + \blacksquare = (\blacksquare)^2$$

6. Know Your Perfect Squares!

$$x^2 - 20x + \blacksquare = (x - 10)^2$$

6. Know Your Perfect Squares!

$$x^2 - 20x + 100 = (x - 10)^2$$

6. Know Your Perfect Squares!

$$x^2 + 6x + 9 = (x + 3)^2$$

$$x^2 - 10x + 25 = (x - 5)^2$$

$$x^2 - 20x + 100 = (x - 10)^2$$

7. Classwork

pg. 460 // #1 - 6

8. Homework

Practice

$$x^2 + 5x + 6 = 0$$

Challenge

Day 75

1. Opener

a) Graph: $y = -x^2 + 4x + 6$

b) Where does it cross the x-axis?

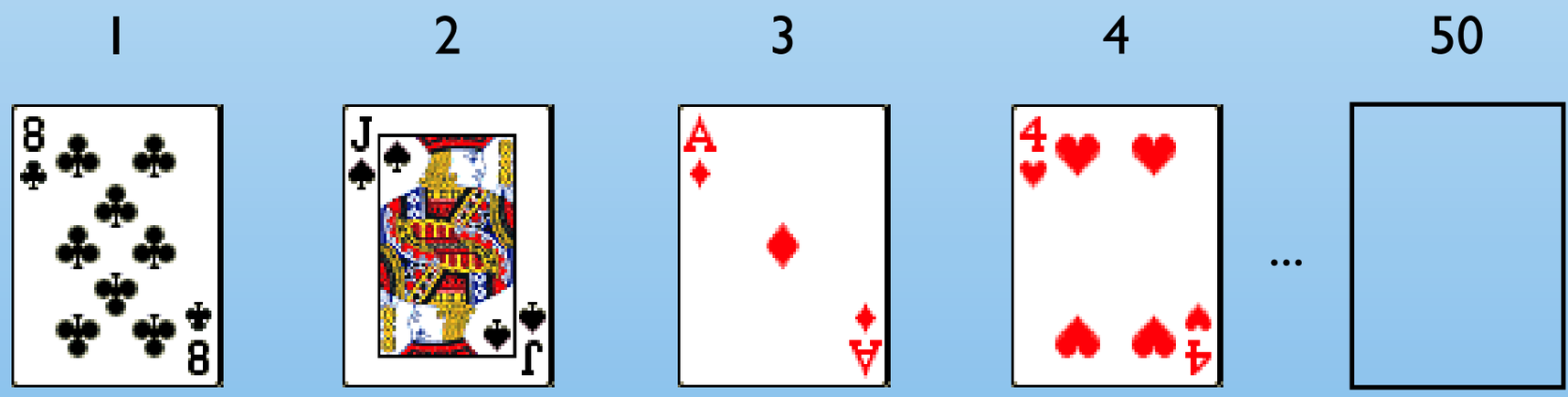
Fill in the blanks:

c) $x^2 + 18x \quad = (\quad)^2$

d) $k^2 - 10k \quad = (\quad)^2$

e) $y^2 - 24y \quad = (\quad)^2$

f) $x^2 + 2x \quad = (\quad)^2$



g) How much did "Happy Birthday" cost in 1988?

8. Homework

Practice

$$x^2 + 5x + 6 = 0$$

Challenge

- In favor
of the war in Iraq

- Against
the war in Iraq

- Don't know
where Iraq is

Meet the world

Grande

- Working 14 year olds

- Studying 14 year olds

Meet the world

Grande Reportagem
Magazine

- Banana export
- Coffee export
- Cocaine export

Meet the world

Grande

- Children who die before completing **one year of age**
- Children who die before completing the **third birthday**
- Children who reach **maturity**

Meet the world

Grande


- People who live with less than 10 dollars a month
- People who live with less than 100 dollars a month
- People who live with less than 1000 dollars a month
- People who live with more than 100.000 dollars a month
Meet the world

- Oil consumption

- Oil production

Meet the world


P ARD
7 68
RIBAL

Friday 4/3/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	48	**81**	67	76	57	**48**							**69**
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Friday 4/17/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	95	**70**	52	**86**	67	81	57	**48**							**71**
Sixth	57	**100**	48	**67**	57	**81**	**86**	**81**	33							68

2. Know Your Perfect Squares!

$$r^2 + 8r = 48$$

2. Know Your Perfect Squares!

$$r^2 + 8r \square = 48$$

2. Know Your Perfect Squares!

$$k^2 + 6k = 15$$

2. Know Your Perfect Squares!

$$k^2 + 6k\square = 15$$

3. Classwork

pg. 460 // #8 - 15

4. Break

5. Show and Tell

77 **Which relation is a function?**

A $\{(-1, 3), (-2, 6), (0, 0), (-2, -2)\}$

B $\{(-2, -2), (0, 0), (1, 1), (2, 2)\}$

C $\{(4, 0), (4, 1), (4, 2), (4, 3)\}$

D $\{(7, 4), (8, 8), (10, 8), (10, 10)\}$

CSA10070

11 **Solve:** $3(x+5)=2x+35$

Step 1: $3x+15=2x+35$

Step 2: $5x+15=35$

Step 3: $5x=20$

Step 4: $x=4$

Which is the first *incorrect* step in the solution shown above?

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

57 **What is the solution set of the quadratic equation $8x^2 + 2x + 1 = 0$?**

A $\left\{-\frac{1}{2}, \frac{1}{4}\right\}$

B $\left\{-1+\sqrt{2}, -1-\sqrt{2}\right\}$

C $\left\{\frac{-1+\sqrt{7}}{8}, \frac{-1-\sqrt{7}}{8}\right\}$

D no real solution

18 **Which of the following is a valid conclusion to the statement "If a student is a high school band member, then the student is a good musician"?**

A All good musicians are high school band members.

B A student is a high school band member.

C All students are good musicians.

D All high school band members are good musicians.

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

8 **Which equation is equivalent to $5x-2(7x+1)=14x$?**

A $-9x-2=14x$

B $-9x+1=14x$

C $-9x+2=14x$

D $12x-1=14x$

CSA00206

39

$$\frac{5x^3}{10x^7} =$$

A $2x^4$

B $\frac{1}{2x^4}$

C $\frac{1}{5x^4}$

D $\frac{x^4}{5}$

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

2

$$\sqrt{16} + \sqrt[3]{8} =$$

A 4

B 6

C 9

D 10

CSA00471

41 **The sum of two binomials is $5x^2 - 6x$. If one of the binomials is $3x^2 - 2x$, what is the other binomial?**

A $2x^2 - 4x$

B $2x^2 - 8x$

C $8x^2 + 4x$

D $8x^2 - 8x$

CSA10160

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

60 **Which quadratic function, when graphed, has x-intercepts of 4 and -3?**

A $y=(x-3)(x+4)$

B $y=(x+3)(2x-8)$

C $y=(3x-1)(4x+1)$

D $y=(3x+1)(8x-2)$

CSA20115

55 **Which is one of the solutions to the equation $2x^2 - x - 4 = 0$?**

A $\frac{1}{4} - \sqrt{33}$

B $-\frac{1}{4} + \sqrt{33}$

C $\frac{1 + \sqrt{33}}{4}$

D $\frac{-1 - \sqrt{33}}{4}$

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

61 **How many times does the graph of $y = 2x^2 - 2x + 3$ intersect the x-axis?**

A none

B one

C two

D three

CSA10084

23 **What is the y-intercept of the graph of $4x + 2y = 12$?**

A -4

B -2

C 6

D 12

CSA00239

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

33 **Which equation represents a line that is parallel to $y = -\frac{5}{4}x + 2$?**

A $y = -\frac{5}{4}x + 1$

B $y = -\frac{4}{5}x + 2$

C $y = \frac{4}{5}x + 3$

D $y = \frac{5}{4}x + 4$

CSA10112

1 **Is the equation $3(2x-4)=-18$ equivalent to $6x-12=-18$?**

A Yes, the equations are equivalent by the Associative Property of Multiplication.

B Yes, the equations are equivalent by the Commutative Property of Multiplication.

C Yes, the equations are equivalent by the Distributive Property of Multiplication over Addition.

D No, the equations are not equivalent.

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

56 **Which statement *best* explains why there is no real solution to the quadratic equation $2x^2 + x + 7 = 0$?**

A The value of $1^2 - 4 \cdot 2 \cdot 7$ is positive.

B The value of $1^2 - 4 \cdot 2 \cdot 7$ is equal to 0.

C The value of $1^2 - 4 \cdot 2 \cdot 7$ is negative.

D The value of $1^2 - 4 \cdot 2 \cdot 7$ is not a perfect square.

CSA10147

50 **What are the solutions for the quadratic equation $x^2 + 6x = 16$?**

A $-2, -8$

B $-2, 8$

C $2, -8$

D $2, 8$

CSA10062

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

15 **The lengths of the sides of a triangle are y, $y+1$, and 7 centimeters. If the perimeter is 56 centimeters, what is the value of y?**

A 24

B 25

C 31

D 32

CSA10046

6 **What is the solution for this equation?**

$$|2x-3|=5$$

A $x=-4$ or $x=4$

B $x=-4$ or $x=3$

C $x=-1$ or $x=4$

D $x=-1$ or $x=3$

CSA00264

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean

9 **Which equation is equivalent to $4(2-5x)=6-3(1-3x)$?**

A $8x=5$

B $8x=17$

C $29x=5$

D $29x=17$

CSA00059

22 **When is this statement true?**

The opposite of a number is less than the original number.

A This statement is never true.

B This statement is always true.

C This statement is true for positive numbers.

D This statement is true for negative numbers.

6. Basketball

A. Japanese

B. Chinese

C. Korean

6. Basketball

A. Japanese

B. Chinese

C. Korean