

Dear parents and guardians,

We hope your summer is off to a great start! We want to start by saying that the summer work for your child is designed to bridge the gap between the end of the school year and the start of the next school year. We have provided three resources that can be utilized this summer.

### **XtraMath**

- Directions:
  - Go to <https://home.xtramath.org/> and click "sign up"
  - Sign in with Google (use Pen Ryn account)
  - Click "yes" you have an existing account
  - Click "yes" I am a student
  - Type your first name, use [aeppolito@penryn.org](mailto:aeppolito@penryn.org) as the email, your PIN
- Username:
- PIN:
- XtraMath is a resource used to improve your child's math fact fluency by tracking speed and accuracy in addition, subtraction, multiplication and division.

### **Review Packet**

- We have provided a worksheet based review to help prepare them for the upcoming school year.

### **Optional: IXL Diagnostic Action Plan**

- Username:
- Password:
- Current students: please see Diagnostics Arena on the website for recommendations
- New students: please complete the IXL Diagnostics

If any questions arise please contact Lynn Armstrong, [larmstrong@penryn.org](mailto:larmstrong@penryn.org), who will be in contact with the math department.

Have a great summer!

The Upper Grade Mathematics Department  
The Pen Ryn School

# 6.1 Puzzle Time

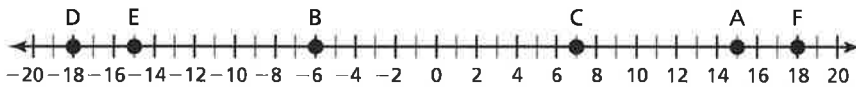
## What Do You Get When You Cross An Electrical Eel With A Sponge?

Write the letter of each answer in the box containing the exercise number.

Write a positive or negative integer that represents the situation.

1. Lisa puts 14 dollars into her piggy bank.
2. You are playing a game and must go back 4 spaces.
3. Claire loses 5 points on a spelling test.
4. The football team scores 21 points in the game.
5. Your dad gains 5 pounds.
6. Addison gets 4 bonus points on the science test.
7. The temperature drops 14 degrees.
8. You take 21 dollars out of your bank account.

Identify the location of the point on the number line.



- |       |       |
|-------|-------|
| 9. A  | 10. B |
| 11. C | 12. D |
| 13. E | 14. F |

**Answers**

O. 21  
 A. -18  
 R. -4  
 K. -14  
 B. -6  
 S. 7  
 B. 18  
 H. -5  
 O. 4  
 S. 14  
 C. -15  
 R. -21  
 S. 5  
 E. 15

11	3	6	13	7		12	10	1	4	8	14	9	2	5
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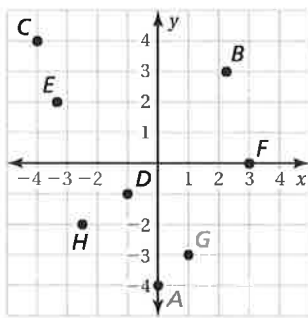
# 6.5 Puzzle Time

## What Has Stars and Stripes?

Write the letter of each answer in the box containing the exercise number.

Write an ordered pair corresponding to the point.

- 1. Point A
- 2. Point B
- 3. Point C
- 4. Point D
- 5. Point E
- 6. Point F
- 7. Point G
- 8. Point H



Plot the ordered pair in a coordinate plane. Describe the location of the point.

- 9.  $(6, -2)$
- 10.  $(2\frac{1}{8}, 6)$
- 11.  $(-1, 2)$
- 12.  $(-4.8, -6.1)$

Plot the points and find the distance between the points.

- 13.  $(3, -4), (7, -4)$
- 14.  $(5\frac{1}{2}, 3), (5\frac{1}{2}, -2)$
- 15.  $(2, -2.4), (2, 4.6)$
- 16.  $(-1, 4), (-1, 6)$
- 17. A rectangle is drawn in a coordinate plane with the vertices  $A(-3, 4), B(6, 4), C(6, -3),$  and  $D(-3, -3)$ . Find the area of the rectangle.

### Answers for 1–8

- O.  $(2.25, 3)$
- E.  $(-3\frac{1}{3}, 2)$
- A.  $(0, -4)$
- E.  $(-4, 4)$
- A.  $(3, 0)$
- I.  $(-2\frac{1}{2}, -2)$
- O.  $(-1, -1)$
- U.  $(1, -3)$

### Answers for 9–12

- A. Quadrant I
- T. Quadrant II
- R. Quadrant III
- A. Quadrant IV

### Answers for 13–17

- B. 7
- Z. 63
- B. 4
- V. 5
- M. 2

9		16	4	14	8	3		10	13	2	7	11		6		17	5	15	12	1
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# 7.2 Puzzle Time

## What Do Kitty Cats Like To Eat For Breakfast?

Write the letter of each answer in the box containing the exercise number.

Solve the equation. Check your solution.

1.  $p - 8 = 4$
2.  $k - 2 = 12$
3.  $9 = h - 15$
4.  $y + 4 = 7$
5.  $z + 5 = 21$
6.  $63 = r + 31$
7.  $x - 25 = 16$
8.  $26 = m + 18$
9.  $\frac{2}{3} = a - \frac{2}{3}$
10.  $f + \frac{1}{4} = \frac{7}{8}$
11.  $2.3 = q - 3.6$
12.  $j + 4.4 = 16.2$

**Answers**

K. 16

I.  $\frac{5}{8}$

E. 24

S. 14

R. 5.9

C. 41

I. 32

P. 12

S. 8

M. 3

E. 11.8

I.  $1\frac{1}{3}$

4	10	7	12		5	11	9	2	1	6	3	8
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## Puzzle Time

### What Did The Dirt Say When It Began To Rain?

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

7 NAME
56 WILL
54 IF
9 MUD
10 MY
13 WILL
2 CALLED
40 HEAVY

Solve the equation. Check your solution.

A.  $\frac{a}{9} = 6$

B.  $7 = \frac{z}{6}$

C.  $y \div 4 = 10$

D.  $25 = \frac{k}{5}$

E.  $2s = 16$

F.  $8 \cdot t = 96$

G.  $50 = 5x$

H.  $56 = 8k$

I.  $4b = 52$

J.  $39 = 6 \cdot c$

K.  $14 = n \div 5$

L.  $10 = v \div 6$

M.  $x \div 16 = 3.5$

N.  $\frac{w}{25} = 4.4$

O.  $11.5 \cdot d = 23$

P.  $4.5v = 40.5$

12 UP
6.5 CHANGE
125 RAIN
110 BE
42 THIS
8 KEEPS
60 I
70 AND



## Puzzle Time

### What Is Really Easy To Get Into, But Really Hard To Get Out Of?

Write the letter of each answer in the box containing the exercise number.

Find the mean of the data.

1.

Number of Text Messages Per Day	
Jill	22
Dylan	15
Bill	18
Bella	20
Drew	10

2.

Number of Cats Owned	
Louise	
Ted	
Mark	
Alexis	

3.

Number of TVs in Home	
Spencer	□□□□□
Megan	□□□□
Tyler	□□□
Ann	□□
Beth	□□□□□
Ashley	□□□□
Mike	□□□□□

4.

Number of Visits to the Stadium	Matt	Brady	Olivia	Ellie	Riley	Noah	Sam
	○○○○○	○○	○○○○○	○○○	○○	○	○○○○○

5. 12, 15, 18, 22, 25, 28

6. 2.6, 2.9, 3.2, 4.2, 5.6

Find the outlier of the data.

7. 60, 55, 65, 8, 57, 62

8. 2, 2, 3, 3, 4, 32

9. 11, 13, 13, 15, 15, 76

10. 18, 17, 1, 15, 19, 23

Answers
G. 4
O. 3.7
E. 76
I. 2
R. 20
B. 32
U. 17
L. 3
T. 8
B. 1

8	2	3		7	5	6	1	10	4	9
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# 15.2 Puzzle Time

## Why Did The Peach Need To Hire An Attorney?

Write the letter of each answer in the box containing the exercise number.

Tell which number is greater.

- |                          |                          |
|--------------------------|--------------------------|
| 1. $\frac{17}{20}$ , 95% | 2. 30%, 0.03             |
| 3. $\frac{27}{50}$ , 27% | 4. $\frac{14}{25}$ , 60% |
| 5. 0.097, 97%            | 6. 65%, 0.56             |
| 7. 80%, $\frac{7}{8}$    | 8. 0.13, 13.5%           |
| 9. 11%, $\frac{3}{25}$   | 10. 150%, 0.15           |
| 11. $\frac{1}{4}$ , 20%  | 12. 66%, $\frac{2}{3}$   |

Tell which number is the greatest.

- |   |  |
|---|--|
| 13. 28%, $\frac{3}{5}$ , 0.31                   | 14. 79%, 0.52, $\frac{17}{20}$         |
| 15. $\frac{17}{25}$ , 0.81, $\frac{5}{8}$ , 64% | 16. 0.14%, $\frac{7}{20}$ , 0.014, 1.4 |

**Answers for Exercises 1–12**

W. $\frac{3}{25}$	D. $\frac{14}{25}$	G. 80%
E. 66%	R. $\frac{1}{4}$	L. $\frac{27}{50}$
Y. 97%	I. 20%	E. 11%
A. 95%	T. 150%	C. 0.15
J. $\frac{2}{3}$	N. $\frac{7}{8}$	O. 27%
I. 60%	S. 30%	K. 0.56
U. 13.5%	M. 0.03	A. 65%
P. 0.097	B. $\frac{17}{20}$	F. 0.13

**Answers for Exercises 13–16**

E. $\frac{5}{8}$	D. 0.014	T. 0.81
W. 0.52	A. $\frac{3}{5}$	S. 0.31
M. $\frac{17}{20}$	Y. 79%	I. 1.4
M. 28%	R. 0.14%	B. 64%

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

## What Did The Sea Say To The Sand?

Write the letter of each answer in the box containing the exercise number.

**Subtract.**

- 1.  $3 - 11$
- 2.  $-5 - 12$
- 3.  $14 - (-10)$
- 4.  $-9 - (-7)$
- 5.  $25 - (-8)$
- 6.  $-13 - (-13)$

**Evaluate the expression.**

- 7.  $-6 + 15 - (-4)$
- 8.  $11 - 22 - (-8)$
- 9.  $-14 - 7 - (-25)$
- 10.  $17 + 8 - (-15)$
- 11.  $-9 - (-4) - 2$
- 12.  $-16 + 5 - 12$

Answers	
J. 24	H. 12
W. -8	G. 40
O. 33	E. -7
D. -2	I. 0
S. 25	N. -17
V. -3	A. -23
U. 13	T. 4

- 13. The high temperature for a day in January was 7 degrees Fahrenheit. The low temperature that day was -5 degrees Fahrenheit. What is the difference in temperatures?
- 14. The top of a sailboat mast is 22 feet above the water surface. The bottom of the sailboat is 3 feet below the water surface. What is the difference in the elevations?

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