

# Grading Sheet 2015-2016 Math League Contests, Grades 3-4

## Grading Guide

### Second-Round, Jan – Feb 2016

一共 42 题, 满分 423 分。

#### **COMPLETE THE CUBE WITH ONE PIECE (QUESTIONS 1-5)**

##### **Question 1:**

d

##### **Question 2:**

c

##### **Question 3:**

b

##### **Question 4:**

d

##### **Question 5:**

c

#### **RECOGNIZING VIEWS OF A SOLID (QUESTIONS 6-7)**

##### **Question 6:**

A-236: c

A-237: d

A-238: a

A-239: b

##### **Question 7:**

A-245: d

A-246: e

A-247: b

A-248: a

A-249: c

### HOW MANY CUBES MAKE UP THE SOLID (QUESTION 8)

**Question 8:**

- |      |      |
|------|------|
| a. 7 | b. 6 |
| c. 5 | d. 5 |
| e. 6 | f. 6 |
| g. 7 | h. 7 |
| i. 7 | j. 8 |

### RECOGNIZING VOLUME (QUESTIONS 9-11)

**Question 9:**

27

**Question 10:**

8

**Question 11:**

27

### WHICH FIGURE IS NOT CONGRUENT? (QUESTIONS 12-13)

**Question 12:**

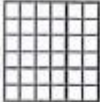

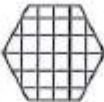





a

**Question 13:**

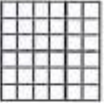

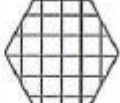



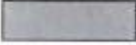
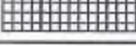
d

### COMPLETING TRUE-FALSE TABLES (QUESTIONS 14-18)









**Question 14:**

Use these shades only ↓					
	FALSE	FALSE	FALSE	FALSE	TRUE
	FALSE	TRUE	FALSE	TRUE	FALSE
	TRUE	FALSE	TRUE	FALSE	FALSE



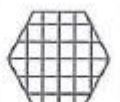





**Question 15:**

Use these shades only ↓					
	FALSE	FALSE	FALSE	FALSE	FALSE
	FALSE	FALSE	FALSE	FALSE	TRUE
	TRUE	TRUE	TRUE	TRUE	FALSE



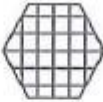





**Question 16:**

Use these shades only ↓					
	FALSE	FALSE	FALSE	FALSE	TRUE
	TRUE	FALSE	TRUE	FALSE	FALSE
	FALSE	TRUE	FALSE	TRUE	FALSE

**Question 17:**

Use these shades only ↓					
	TRUE	FALSE	FALSE	FALSE	TRUE
	FALSE	FALSE	FALSE	FALSE	FALSE
	FALSE	TRUE	TRUE	TRUE	FALSE

**Question 18:**

Use these shades only ↓					
	FALSE	FALSE	FALSE	FALSE	TRUE
	TRUE	TRUE	FALSE	FALSE	FALSE
	FALSE	FALSE	TRUE	TRUE	FALSE

**RECOGNIZING CONGRUENT PARTS (QUESTION 19)**

**Question 19:**

Yes: a, b, d, f, h, i, k

No: c, e, g, j

**FOLLOWING DIRECTIONS (QUESTIONS 20 - 27)**

**Question 20:**

a

**Question 21:**

c

**Question 22:**

C

**Question 23:**

b

**Question 24:**

B

**Question 25:**

C

**Question 26:**

- a. lower right
- c. upper left

b. lower left

**Question 27:**

- a. lower right
- b. upper right
- c. lower left
- d. upper left

## STACKING SHAPES (QUESTIONS 28-33)

### Question 28:

- |      |   |      |   |
|------|---|------|---|
| B-39 | f | B-40 | c |
| B-41 | a | B-42 | g |

### Question 29:

- |      |   |      |   |
|------|---|------|---|
| B-43 | g | B-44 | d |
| B-45 | b | B-46 | a |
| B-47 | h | B-48 | e |
| B-49 | c |      |   |

### Question 30:

- |      |   |      |   |
|------|---|------|---|
| B-50 | f | B-51 | c |
| B-52 | b | B-53 | d |

### Question 31:

- a. triangle
- b. triangle

### Question 32:

- a. rectangle
- b. circle
- c. triangle

### Question 33:

- a. rectangle
- b. square
- c. hexagon

## DESCRIBING LOCATIONS ON A GRID (QUESTIONS 34-37)

### Question 34:

- |       |       |       |      |
|-------|-------|-------|------|
| B-106 | four  | B-107 | four |
| B-108 | eight | B-109 | four |
| B-110 | four  |       |      |

### Question 35:

- |       |           |       |           |
|-------|-----------|-------|-----------|
| B-111 | northwest | B-112 | southwest |
| B-113 | southeast | B-114 | northeast |

### Question 36:

B-117 southwest      B-118 southeast  
 B-119 northeast      B-120 northeast  
 B-121 southwest      B-122 northwest  
 B-123 south

**Question 37:**

B-124 southeast      B-125 southwest  
 B-126 northeast

**Question 38:**

B-162 three      B-163 16 miles  
 B-164 16 miles      B-165 15 square miles  
 B-166 16 square miles

**Question 39:**

B-168 11 miles      B-169 5 miles  
 B-170 6 miles

**Question 40:**

B-281 See Graphic

	B	C	F	J
1	N	N	N	Y
2	N	N	Y	N
4	Y	N	N	N
6	N	Y	N	N

**Question 41:**

B-282 See Graphic

	C	Sh	SU	T
49	Y	N	N	N
75	N	Y	N	N
88	N	N	N	Y
100	N	N	Y	N

**Question 42:**

**B-283** See Graphic

	Running Speed km/hr			
	38	64	79	112
Cheetah	N	N	N	Y
Deer	N	N	Y	N
Elephant	Y	N	N	N
Fox	N	Y	N	N