



**CAHOOTS  
MATH  
GRADE THREE ANSWER KEY**

**Lesson One**

Addition, Subtraction and Multiplication

393	6531	627
627	2664	250
2000	1563	1643

Telling Time

2:30

1:00

5:45

6:05

3:20

10:27

10:45

6:18

1:36

Word Problems

148 balloons

79 minutes –or- 1 hour 19 minutes

41 minutes

\$20.00

41 years old

Recording Time

Answers vary.

## Lesson Two

### Tally Chart

25 cards

30 cards

3 cards

Samara

101 cards

### Geometry

1. b

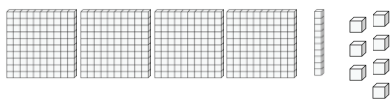
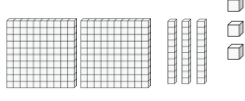
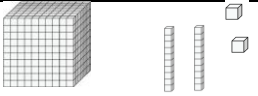
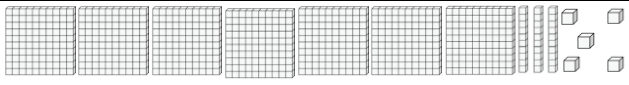
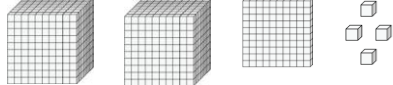
2. d

3. e

4. c

5. a

### Knowing Numbers

417	Four hundred seventeen	
233	Two hundred thirty-three	
1,022	One thousand twenty-two	
735	Seven thousand thirty-five	
2,104	Two thousand one hundred four	

### Fractions

$\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{6}$ ,  $\frac{1}{8}$

$\frac{3}{4}$ ,  $\frac{2}{3}$ ,  $\frac{2}{9}$ ,  $\frac{1}{6}$ ,  $\frac{1}{12}$

### Thank You

Answers vary.

### **Lesson Three**

#### Perimeter

Perimeter = 42 yards

Perimeter = 18 inches

Perimeter = 36 inches

Perimeter = 16 inches

#### Standard, Expanded and Written Form

Standard Form	Expanded Form	Written Form
250	$200 + 50$	Two hundred fifty
436	$400 + 30 + 6$	Four hundred thirty-six
3,478	$3000 + 400 + 70 + 8$	Three thousand four hundred seventy-eight
50,722	$50000 + 700 + 20 + 2$	Fifty thousand seven hundred twenty-two
9,201	$9000 + 200 + 1$	Nine thousand two hundred one
999	$900 + 90 + 9$	Nine hundred ninety-nine

#### Median, Mode, and Range

Median	Mode	Range
13	12	7
5	5	8
17	21	15
17	16	27

#### Household Perimeters

Answers vary.

## Lesson Four

### Multiplication

x	6	7	8	9	10	11	12
6	36	42	48	54	60	66	72
7	42	49	56	63	70	77	84
8	48	56	64	72	80	88	96
9	54	63	72	81	90	99	108
10	60	70	80	90	100	110	120
11	66	77	88	99	110	121	132
12	72	84	96	108	120	132	144

### Temperature

1°C 33°F

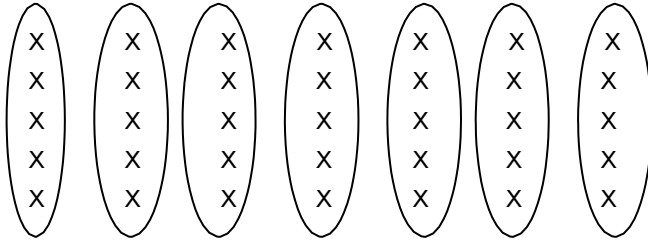
-21°C -7°F

10°C 50°F

### Arrays

a.

$35 \div 7 = 5$ ; example array:



$$8 \times 6 = 48$$

### Rounding

300            500            1,800

500            100            1,000

9,000            3,000            4,000

10,000            900            1,000

## Artistic Arrays

$$3 \times 9 = 27$$

Example Array

```
x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x
```

$$11 \times 2 = 22$$

Example Array

```
x x x x x x x x x x x
x x x x x x x x x x x
```

$$4 \times 4 = 16$$

Example Array

```
x x x x
x x x x
x x x x
x x x x
```

$$7 \times 5 = 35$$

Example Array

```
x x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x
```

## **Lesson Five**

### Greater Than, Less Than, Equal

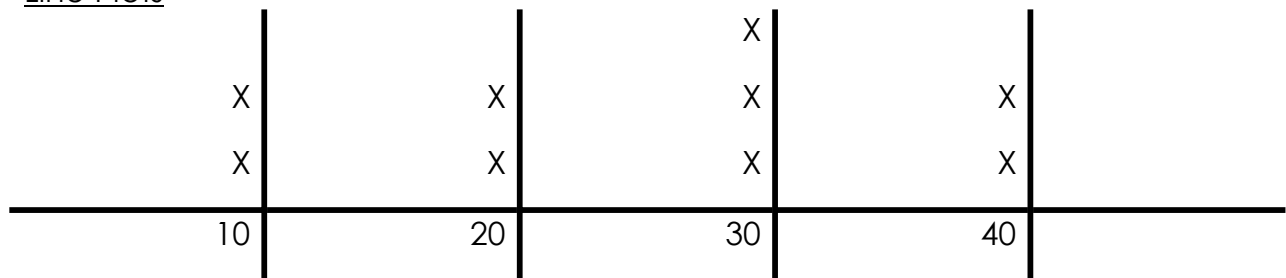
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### Line Plots



### Pictographs

silver hats

36 turquoise hats

30 more orange hats

138 hats

114 hats

### Pictographs and Conversion

Answers vary.

## Lesson Six

### Shapes

Trapezoid 

Octagon 

Pentagon 

Hexagon 

Rectangle 

Heptagon 

### Money Math Using United States Currency

\$12.00

\$27.48

### Word Problems

9/19 fish

1/4 of the bag

\$4, 471.55

7 1/5 (or 7.2) oranges

8:45 pm

### Angles

8

2

1

## **Lesson Six Continued**

### Input Output Tables

Rule: Multiply by 3	
3	9
6	18
9	27
12	36

Rule: Add 16	
16	32
20	36
24	40
28	44

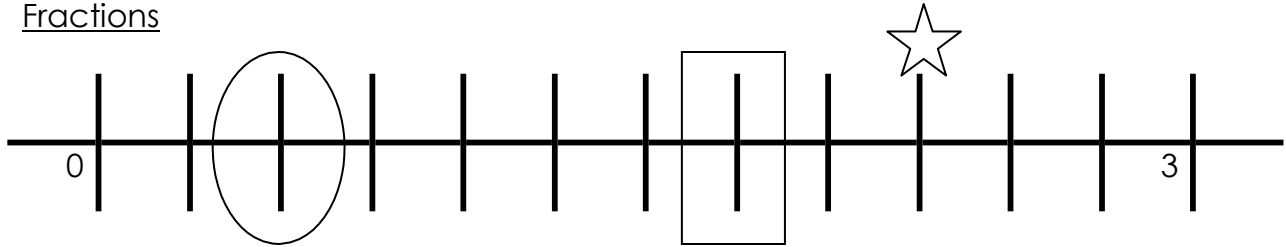
### Exploring Tessellations

Answers will vary.

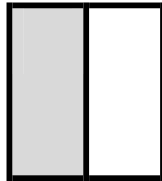
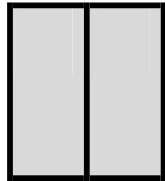
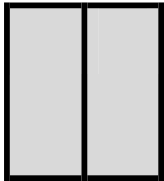
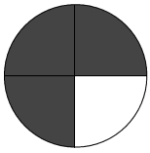


**Lesson Seven**

Fractions



3/8



Number Sentences

$p = 26$

$p = 18$

$p = 2$

$p = 39$

$p = 8$

$p = 9$

$p = 3$

$p = \frac{3}{4}$

Money Math Using United States Currency

\$1.88

\$2.53

72¢

\$3.25

Yes

\$5.13

Grocery Guessing Game

Answers vary.

## **Lesson Eight**

### Bar Graphs

40 Monarch Butterfly stickers

10 more Darwin Fox stickers

Bluefin Tuna

Rhinoceros

150 stickers

7 and one-half hours

130 stickers

### Word Problems

5 hours 14 minutes

$\frac{1}{3}$  snowboarders

9 minutes 45 seconds

\$29.00

\$25.79

### Addition, Subtraction, Multiplication, Division

250          108

72          24

4355        936

116

143

### Data Collection and Bar Graph

Answers vary.