

CAHOOTS
MATH
GRADE FOUR ANSWER KEY

Lesson One



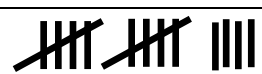

Addition, Subtraction, Multiplication and Division

419 1,688
 1,333 352,242
 3,659 394
 22,619 714
 728 4
 2115
 62,967

Word Problems

398 votes
 64 votes
 541 more butternut squash seeds
 16,200 seeds
 \$261
 614 seeds

Frequency

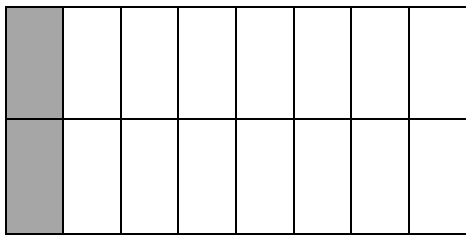
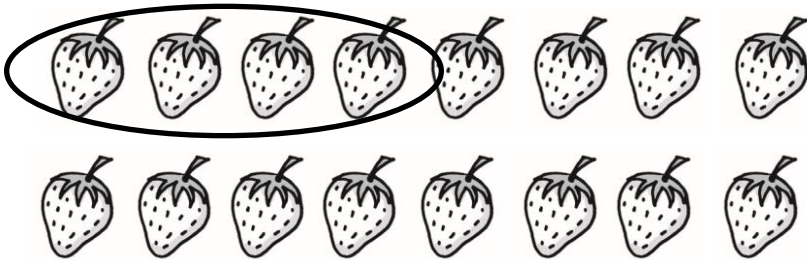
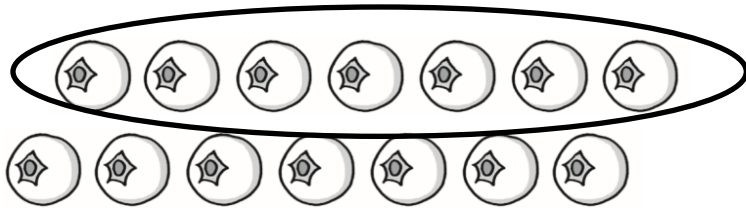
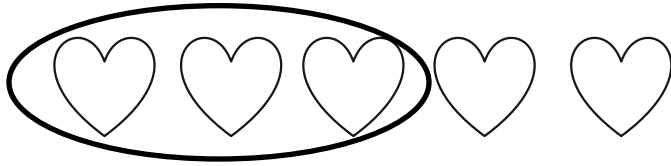
Shape	Tallies	Frequency
Triangle		8
Square		8
Octagon		14
Circle		11

Competition Division

Answers vary.

Lesson Two

Fractions



Equations

$n = 6$

$n = 512$

$n = 11$

$n = 20$

$n = 1020$

Input Output Tables

Rule: Divide by 20

Rule: Multiply by 4

Rule: Divide by 7

Money Math Using United State Currency

\$39.00

\$4.22

Explain your thinking. Answers vary. Example:

$$\begin{array}{l} \$29.78 - \$4.00 = \$25.78 \\ \$30.00 - \$25.78 = \$4.22 \end{array}$$

Meal – discount = meal total money given – meal total = total change

17 players

\$1,662.50

Grocery Guessing Game

Answers vary.

Lesson Three

Number Lines

A. $1 \frac{1}{2}$

B. $2 \frac{1}{2}$

C. $3 \frac{1}{4}$

Bar Graphs

42 neighbors

Purple

Yellow

Word Problems

132 skates

8 cans

168 passengers

142 complete newspapers

36 pieces

13 students

Greater Than, Less Than, Equal

> =

< >

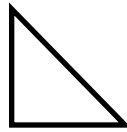
Shapes

Triangles:

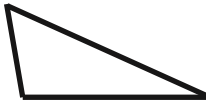
Acute



Right



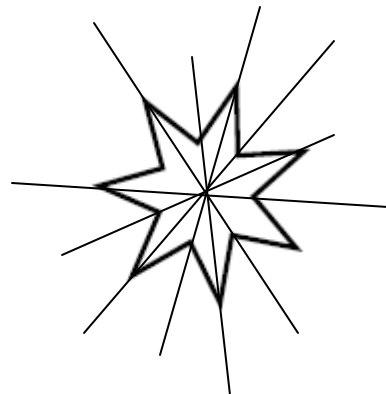
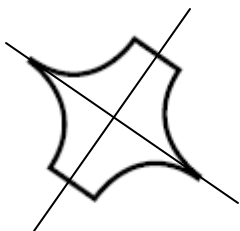
Obtuse



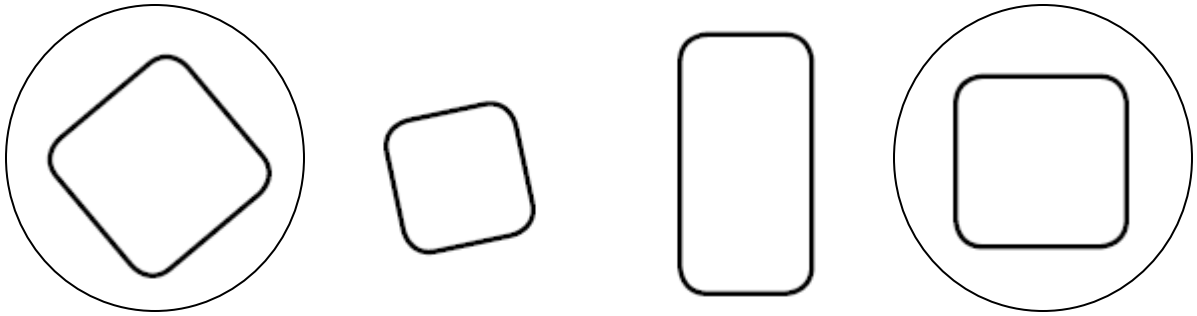
Isosceles



Lines of Symmetry



Congruent shapes



Thank You
Answers vary.

Lesson Four

Equations

$$y = 31$$

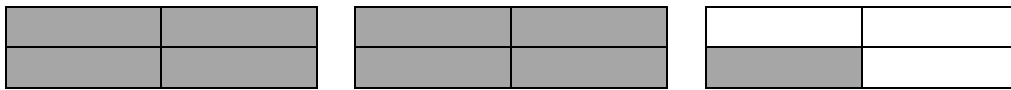
$$y = 206$$

$$y = 12$$

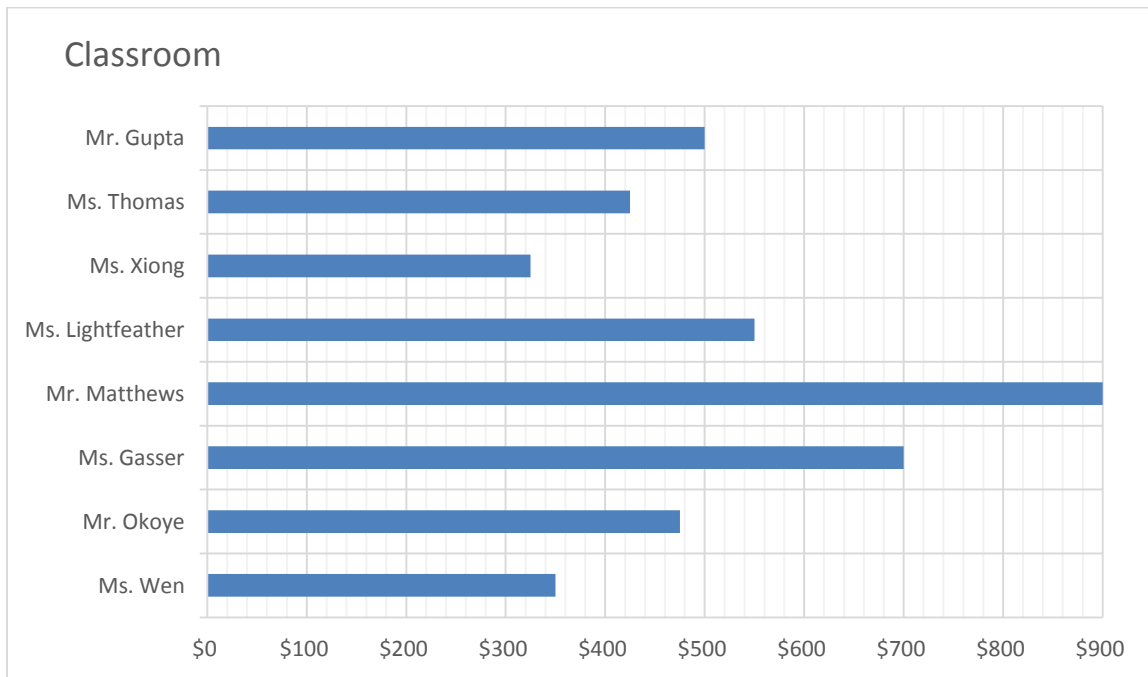
$$y = 8$$

$$y = 47$$

Fractions



Bar Graphs



Lesson Four Continued...

Equations

121	1144
3228	581

Perimeter

Perimeter = 68 inches

Perimeter = 22 in.

Perimeter = 54 miles

Perimeter = 32 cm

Nature Shapes

Answers vary.

Lesson Five

Angles

Right

Acute

Obtuse

Reflex

Acute

Straight

Standard and Expanded Notation

93.43	$9 \times 10 + 3 \times 1 + 4 \times 1/10 + 3 \times 1/100$
437,529	$4 \times 100,000 + 3 \times 10,000 + 7 \times 1,000 + 5 \times 100 + 2 \times 10 + 9 \times 1$
1,398,541	$1 \times 1,000,000 + 3 \times 100,000 + 9 \times 10,000 + 8 \times 1,000 + 5 \times 100 + 4 \times 10 + 1 \times 1$
671.672	$6 \times 100 + 7 \times 10 + 2 \times 1 + 6 \times 1/10 + 7 \times 1/100 + 2 \times 1/1000$
43,590.72	$4 \times 10,000 + 3 \times 1,000 + 5 \times 100 + 9 \times 10 + 7 \times 1/10 + 2 \times 1/100$

Word Problems

11:45 a.m.



2,720 cans

639 seats

222 minutes

Taking Your Time

Answers vary.

Lesson Six

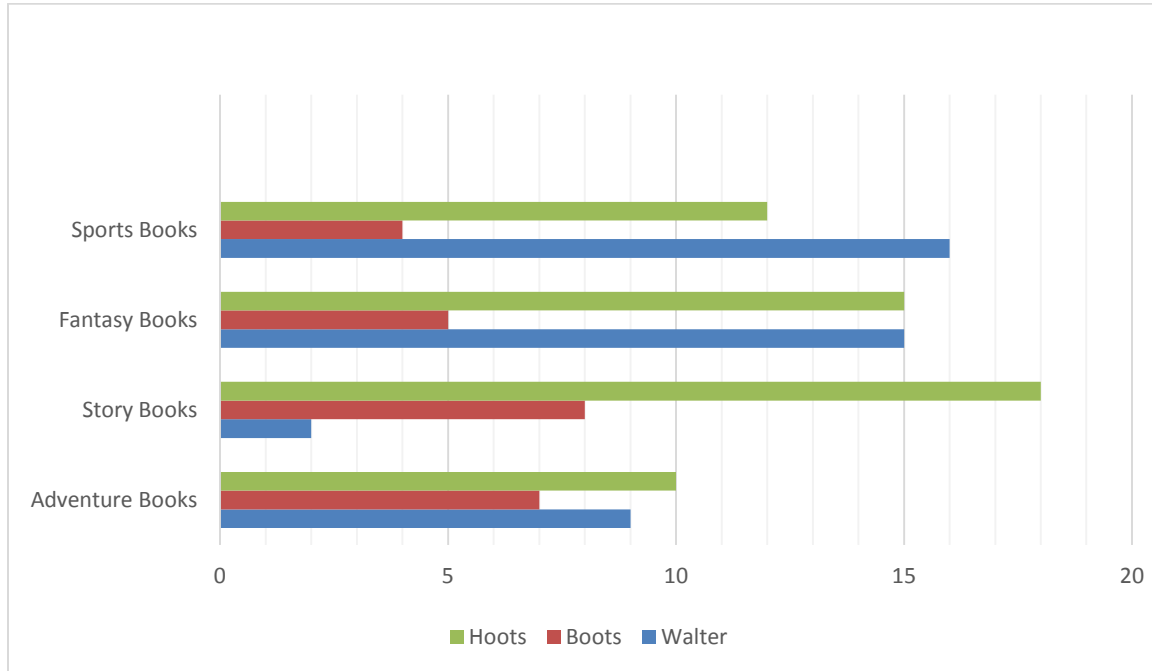
Bar Graphs

55 books

Walter

26 adventure books

Type of Books Checked Out



Mean, Mode, Range, Median, Prime and Composite

18

55

56.4

55

1, 2, 3, 5, 47

4, 55, 55, 60, 65

Area

area = 121 inches²

area = 36 inches²

area = 329 inches²

area = 18 inches²

area = 60.5 inches²

Household Perimeters and Area

Answers vary.

Lesson Seven

Tally Charts

Sport	Number of students who chose this sport
Basketball	
Soccer	
Baseball	
Football	

Tie between baseball and football.

37 4th graders voted

Yes

Range = 6

Median = 7, 12

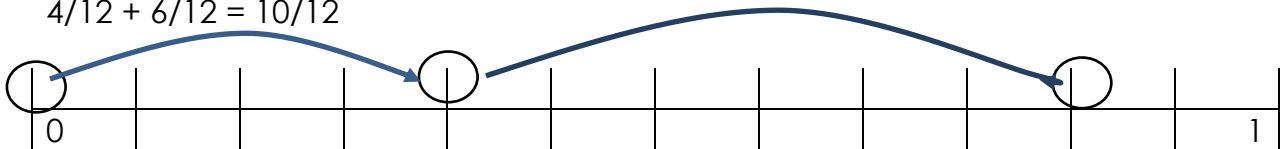
Mean = 9.25

Conversions

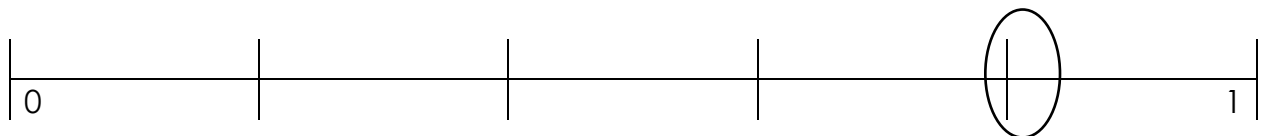
46/40	8.2
219/1000	.219
5/8	.625
7/4 or 1 ³ / ₄	1.75
307/50, or 6 ⁷ / ₅₀	6.14
36/10	3.6

Number Lines

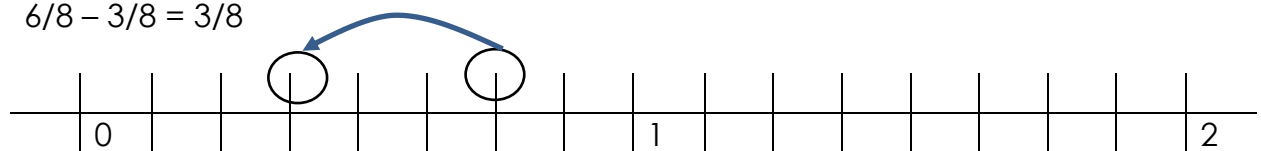
$$4/12 + 6/12 = 10/12$$



Point 4/5

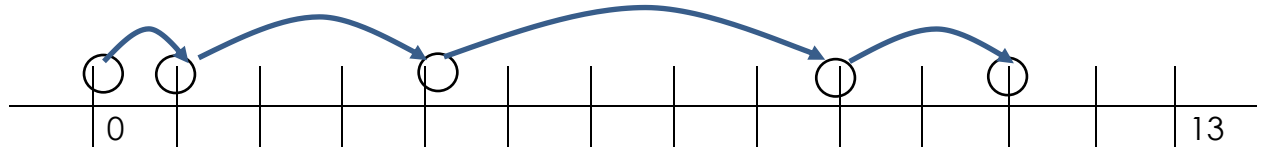


$$6/8 - 3/8 = 3/8$$



Lesson Seven Continued...

$$1 + 3 + 5 + 2 = 11$$



Data Collection and Bar Graph
Answers vary.

Lesson Eight

Word Problems

624 weeks

17 feet

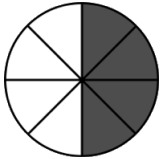
8/32 or 1/4 tomatoes

389 miles

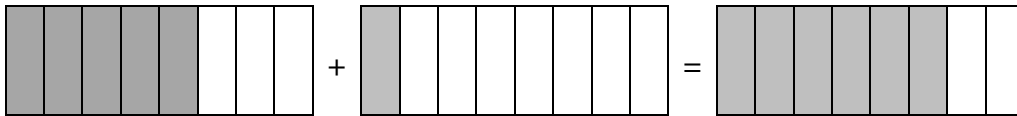
120 miles

\$1,025.23

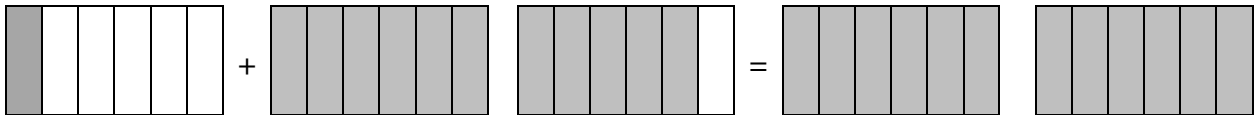
Fractions



$$1/8 + 3/8 = 4/8$$



$$5/8 + 1/8 = 6/8$$



$$1/6 + 1 \frac{5}{6} = 2$$

1/2 and 4/8 are equivalent

Addition, Subtraction, Multiplication and Division

344 15/90 or 1/6

604 253.575

2/10 or 1/5 1767.314

27/20 or 1 7/20 71,418.55

Totally Tangrams

Answers Vary