

Application and Enrichment Solutions

Application and Enrichment 1G

1. 3×4 , 4×3 , area = 12
2. 3×7 , 7×3 , area = 21
3. 6×10 , 10×6 , area = 60
4. three 4-bars, 3×4 , 4×3
5. four 3-bars, 3×4 , 4×3
6. two 6-bars, 2×6 , 6×2
7. yes

Application and Enrichment 2G

1. $0 \times 7 = 0$
2. $1 \times 5 = 5$ pets
3. 4, 4, yes
4. 4, 3, no
5. 0, 0, yes
6. 3, 4, no
7. 1×4 , 4×1 , $(1)(4)$, $(4)(1)$, $1 \cdot 4$, $4 \cdot 1$, $1 + 1 + 1 + 1 = 4$

Application and Enrichment 4G

1. Friday
2. Tuesday
3. Monday and Wednesday
4. $2 \times 8 = 16$ quarts

Across

1. product
3. quart
4. rectangle
6. factors

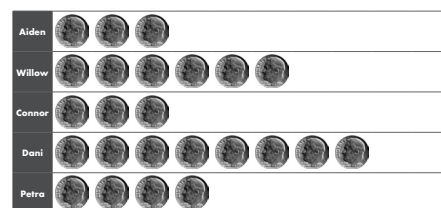
Down

1. pints
2. square
5. area

Application and Enrichment 5G

$5 \times 10 = 50$ flies

Dimes Each Student Has



1. Dani
2. Aiden, Conner
3. $10 \times 6 = 60\text{¢}$
4. 4 dimes
5. $10 \times 3 = 30\text{¢}$
6. Skip counting by ten gives 240¢. You may want to use real dimes and put them in piles to show that this is the same as \$2.40.

Application and Enrichment 6G

two fact circle pattern

bottom row of chart:

0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

1. 2 times
2. 5 sides
3. pentagon

five fact circle pattern

bottom row of chart:

































0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

The pattern is a single line.

Application and Enrichment 7G

1. $2 \times 10 = 20$ sq ft
2. $4 \times 5 = 20$ sq ft
3. $1 \times 20 = 20$ sq ft
4. yes

Cost of Each Item in Nickels

pencil	  
apple	     
toy car	    
crayons	       
ring	         

1. ring
2. 40¢
3. pencil
4. $25¢ - 15¢ = 10¢$
5. Skip counting by five gives 160¢, You may want to use real nickels and put them in piles to show that this is the same as \$1.60.

Application and Enrichment 8G

Students may use any letter they like for the unknown in the problem.

1. $2X = 12$, $X = 6$ boxes
2. $5X = 15$, $X = 3$ windows
3. $2X = 18$,
 $X = 9$ of whatever Rena made
4. $\$10X = \80 , $X = 8$ items

Logic Problems

1. done
2. Hope - drawing
Alana - piano
Jared - juggling

Application and Enrichment 9G

9, 18, 27, 36 bugs

Application and Enrichment 10G

nine fact circle pattern

bottom row of chart:

0, 9, 18, 27, 36, 45, 54, 63, 72, 81, 90

1. 10 sides
(A ten-sided shape is a decagon.)
2. counterclockwise

Venn Diagram

1. Region A only - 5, 15, 25, 35, 45
2. Region B only - 60, 70, 80, 90, 100
3. Overlap - 10, 20, 30, 40, 50; 5 numbers
4. 4 numbers

Application and Enrichment 11G*Venn Diagram*

1. Region A only: 3, 6, 12, 15, 21, 24, 30
2. Region B only: 36, 45, 54, 63, 72, 81, 90
3. Overlap: 9, 18, 27; 3 numbers
4. 3 numbers

Application and Enrichment 12G

three fact circle pattern

bottom row of chart:

0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

1. star
2. 10 points

3, 6, 9, 12, 15, 18, 21 worms

Application and Enrichment 13G

1. $9 \times 6 = 54$
2. $5 \times 6 = 30$
3. $3 \times 6 = 18$
4. $2 \times 6 = 12$

Application and Enrichment 14G

six fact circle pattern

bottom row of chart:

0, 6, 12, 18, 24, 30, 36, 42, 48, 54, 60

1. star
2. 5 points

6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66,
72 nibbles

Application and Enrichment 15G

1. 12 numbers
2. 12 numbers
3. 8 numbers

Logic problems

1. Anna - horse ranch
Emily - mountains
James - beach
2. Alex - walked
Jayna - bus
Billy - rode in Mom's car

Application and Enrichment 16G

four fact circle pattern

bottom row of chart:

0, 4, 8, 12, 16, 20, 24, 28, 32, 36

1. star
2. 5 points

4, 8, 12, 16, 20, 24 dollars**Application and Enrichment 17G**

$$5 \times 5 = 25$$

$$5 + 5 + 5 + 5 + 5 = 25$$

$$1 + 3 + 5 + 7 + 9 = 25$$

Application and Enrichment 18G

seven fact circle pattern

bottom row of chart:

0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70

1. star
2. 10 points

7, 14, 21, 28, 35, 42, 49, 56 days

Application and Enrichment 19G

1. 8, 16, 24, 32, 40, 48
2. 8, 16, 24, 32, 40, 48, 56, 64, 72
3. 8, 16, 24, 32, 40, 48, 56, 64
4. 8, 16, 24, 32, 40, 48, 56

1. Friday
2. Sunday
3. 8, 16, 24, 32
4. 8, 16, 24, 32, 40, 48, 56
5. $0 + 3 + 4 + 6 + 2 + 7 + 5 =$
27 gallons
6. $0 + 24 + 32 + 48 + 16 + 56 + 40$
 $= 216$ pints

You may want to separate the
column addition in #5 and #6 and
then add the parts together.

Application and Enrichment 20G

eight fact circle pattern

bottom row of chart:

0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80

1. 5
2. pentagon

8, 16, 24, 32, 40, 48, 56, 64 things

Application and Enrichment 21G

1. $20 + 6 = 26$
2. $60 + 3 = 63$
3. $60 + 4 = 64$

$$6 \times 6 = 36$$

$$6 + 6 + 6 + 6 + 6 + 6 = 36$$

$$1 + 3 + 5 + 7 + 9 + 11 = 36$$

$$7 \times 7 = 49$$

$$7 + 7 + 7 + 7 + 7 + 7 + 7 = 49$$

$$1 + 3 + 5 + 7 + 9 + 11 + 13 = 49$$

Application and Enrichment 22G

1. 1 room
2. 4 rooms
3. 8 rooms
4. 12 rooms
5. Write 12 in chart.
6. After Week 1, the numbers of rooms skip count by 4.
bottom row of chart:
1, 4, 8, 12, 16, 20, 24

Application and Enrichment 23G

1. $11 \times \$23 = \253
2. $11 \times 17 = 187$
3. $11 \times 34 = 374$
4. $11 \times 63 = 693$

1. 2 pt
2. 3 ft
3. 4 qt
4. 5 cents
5. 7 days
6. 8 legs
7. 24 pt
8. 39 ft
9. 44 qt
10. 70 days
11. 88 pt

12. 99 ft

Application and Enrichment 24G

1. 16
2. 24
3. 8 skip count pattern
4. bottom row of chart: 1, 8, 16, 24, 32, 40, 48

Application and Enrichment 25G*Across*

2. multiplier
4. ten thousands
5. product
7. hundreds
8. add
9. double

Down

1. thousands
2. multiplicand
3. unit
6. tens

Application and Enrichment 26G

Answers will vary.

1. 4, 8, 22
2. 10, 25, 40
3. 30, 50
4. 33, 51, 69
5. 36, 99, 108, 234

Application and Enrichment 27G*Across*

3. dollar
4. ounces
6. two
7. feet

Down

1. gallon
2. tablespoon
3. dime
5. nickel

Area

1. $15 \times 20 = 300$ sq ft
 $12 \times 30 = 360$ sq ft
 $300 + 300 + 360 = 960$ sq ft

Application and Enrichment 28G

1. 7 pounds
2. 23 pounds
3. $23 - 7 = 16$ pounds
4. first half
5. $16 \times 18 = 288$ ounces

1. 5 lb
2. Rose
3. $2 \times 45 = 90$ lb; Seth
4. $130 + 30 = 160$ lb
5. $160 < 165$; no
6. $130 + 90 = 220$ lb; $220 > 165$ lb

Application and Enrichment 29G

1. There are three quadrilaterals (4 sides).
2. The square is included as a kind of rectangle.
3. The figure on the bottom right is the square.
4. The figure should have four straight sides and no more than two right angles.

1. quadrilateral, rhombus
2. quadrilateral rectangle
3. quadrilateral
4. quadrilateral, rhombus, square
5. Answers will vary.

Application and Enrichment 30G

- A. 3:25
- B. 3:40
- C. 10:10
- D. 10:50

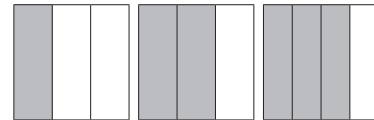
- A. 4:13
- B. 4:36
- C. 9:05
- D. 9:21

1. $8:35 + :15 = 8:50$
2. $5:55 - :45 = 5:10$
3. $3:10 + :35 = 3:45$
4. $7:37 - :17 = 7:20$

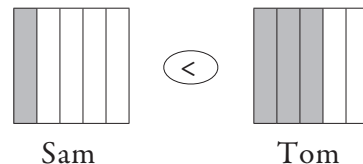
Line plot: Results will vary.

Application and Enrichment A1

1.



2.



3. $3, \frac{2}{3}, 3, \frac{2}{3}$
4. 1, 1
5. 3, 1

Application and Enrichment B1**Word Problems**

1. $5 \times 2 = 10$ liters
2. $27 + 5 = 32$ kilograms

APPLICATION AND ENRICHMENT SOLUTIONS

3. about 342 grams
4. There are 4 quarts in a gallon, so she should buy 4 liters of gasoline for each gallon she wants.
5. grams
kilograms
6. $25 + 25 + 25 + 25 = 100$ cm