

Application & Enrichment Solutions

Application & Enrichment 1G

1. $3 \times 4, 4 \times 3, \text{ area} = 12$
2. $3 \times 7, 7 \times 3, \text{ area} = 21$
3. $6 \times 10, 10 \times 6, \text{ area} = 60$
4. three 4-bars, $3 \times 4, 4 \times 3$
5. four 3-bars, $3 \times 4, 4 \times 3$
6. two 6-bars, $2 \times 6, 6 \times 2$
7. yes

Application & 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. $1 \times 4, 4 \times 1, (1)(4), (4)(1), 1 \cdot 4, 4 \cdot 1, 1 + 1 + 1 + 1 = 4$

Application & 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

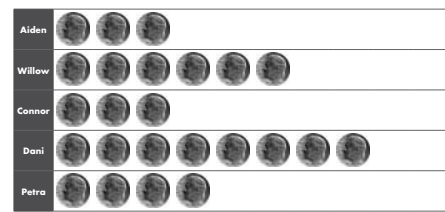
Down

1. pints
2. square
5. area

Application & Enrichment 5G

$$5 \times 10 = 50 \text{ flies}$$

Pictograph



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 & 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:

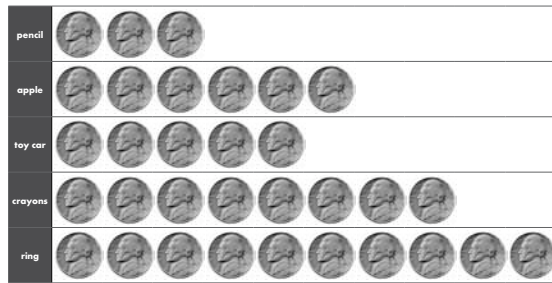
0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

The pattern is a single line.

Application & 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

Pictograph



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 & 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 & Enrichment 9G

9, 18, 27, 36 bugs

Application & 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 & 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 & 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 & Enrichment 13G

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

Application & 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 & 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 & 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 & Enrichment 17G**

$5 \times 5 = 25$

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

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

Application & 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 & 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 break the
column addition in #5 and #6
into parts and then add the parts
together.

Application & 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 & 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 & 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 & 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 & Enrichment 24G

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

Application & 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 & 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 & 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 & 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 & 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 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 & Enrichment 30G

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

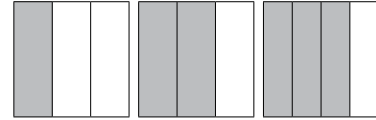
- A. 4:13
- B. 4:36
- C. 9:05
- D. 9:21

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

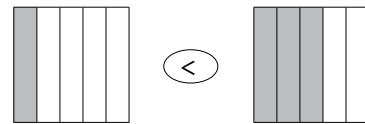
Line Plot: Various results

Application & Enrichment A1

1.



2.



Sam

Tom

3. $3, \frac{2}{3}, 3, \frac{2}{3}$

4. 1, 1

5. 3, 1

Application & Enrichment B1

Word Problems

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

APPLICATION & 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