

**Summer Math Packet**  
**Grade 6**  
**Answer Key**

1. Chris \$536  
Peggy \$336

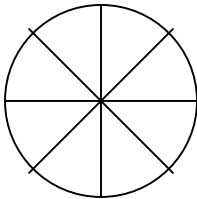
2. c

3. b

4. b

5. b

6.



7.



8. sample equivalent fractions

a.  $3\frac{3}{8} = 27/8$  or  $54/16$  or  $3\frac{6}{16}$

b.  $5\frac{1}{4} = 21/4$

c.  $4\frac{5}{6} = 29/6$

d.  $2\frac{4}{7} = 18/7$

9. a

10. b

11. d

12. d

13. d

14. b

15. b

16. d

17. c

18. d

19. c

20. Write a story problem for  $48 \div 8$ .  
Any story problem that utilizes 48  
divided by 8 with the division stated or  
implied.

21. 2718

22. 42

23. 9

24. c

25. \$93.67

26. \$200

27. 116

28. d

29. b

30. \$3.65

31. 1440

32. Change = \$7.25  
Explain:  $\$1.50 + \$4.50 + 6.75 = \$12.75$

$$\$20.00 - \$12.75 = \$7.25$$

33. Change = \$7.10

Explain:  
 $\$8.50 \times 2 = \$17.00$   
 $\$12.75 \times 2 = \$25.90$   
 $\$17.00 + \$25.90 = \$42.90$   
 $\$50.00 - \$42.90 = \$7.10$

34. c

35. 60,000 and 10,000  
or 64,000 and 15,000  
could be used.

Explain:  
State the Rounding Rule used.

36. d

37. b

38. b

39. a

40. c

41. d

42. 2 hours 20 minutes

43. c

44. 4

45. 6 feet

46. c

47. d

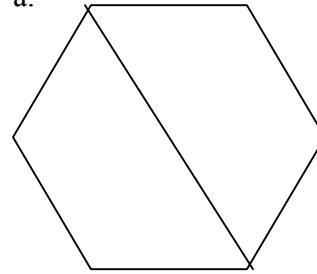
48. Perimeter = 16 cm.

49. Area = 18 sq. cm.

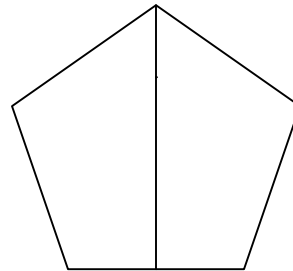
50. b

51.

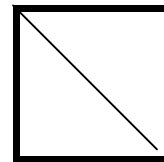
a.



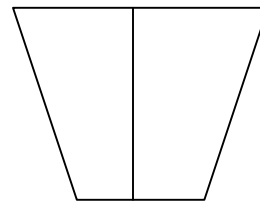
b.



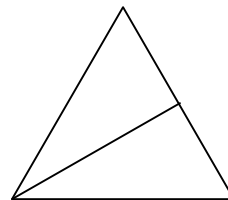
c.



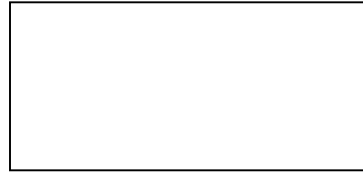
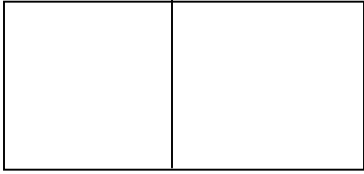
d.



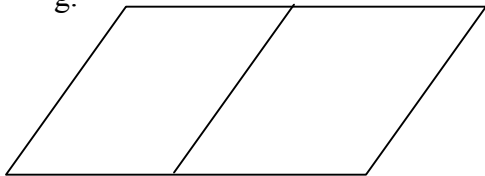
e.



f.

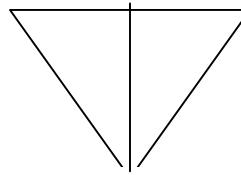


g.

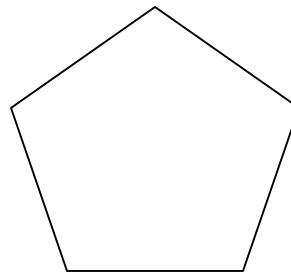
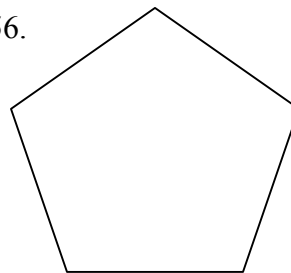


54. b

55.



56.



Quadrilaterals: square, trapezoid,  
rectangle, parallelogram

52. c

53. Two sets of parallel sides  
For Samples see top on next  
column

57. d

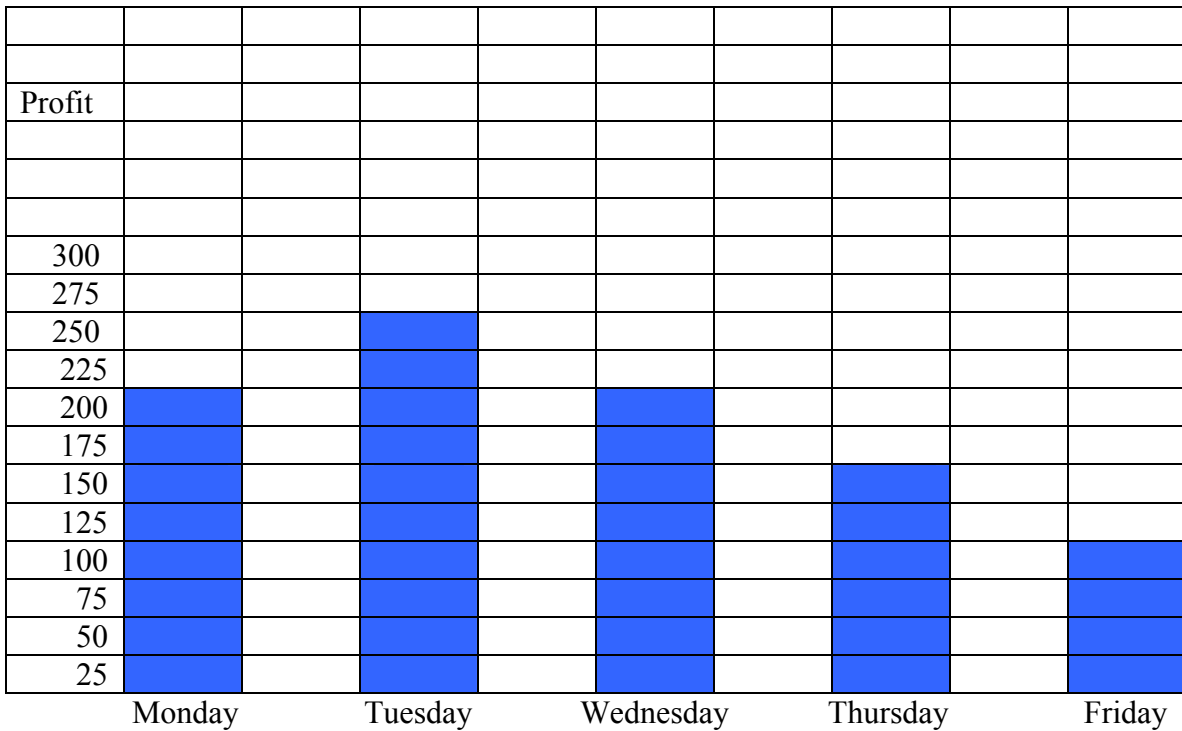
58.

France	O O O
Italy	O O O
Austria	O O O O O O
Switzerland	O O O O
USA	O O
Sweden	O O O O O O
Norway	O O O O O O O O O O
Germany	O O O
Finland	O O O O O O O O
SOV	O O O O O O O O
GDR	O O

Key O = 4 medals

59.

Title: Bake Sale Profit for One Week



Label: Days of the Week

60. Is Jack's statement accurate? Yes The suburban used 22 gallons of gas. The Honda used 10 gallons of gas. 22 is about twice as much as 10. It is just a little more.

61. b

62. Completed pattern:

64, 56, 48, 40, **32**

Explain your answer:

The pattern is “subtract 8”-- Eight was subtracted from 40 to get 32.

63. c

The pattern is to increase by 10, then 8, then 6. The added number decreases by 2 each time. Therefore, the thing to do to complete the pattern is to add 4 to 38 to get 42.

64. 198, 99, 90, 45, 36, **18**

Between the first two elements of the pattern, the operation is to take half. Then 9 is subtracted. Or the pattern is generated by: “Divide by 2, Subtract 9; Divide by 2, Subtract 9; Divide by 2, Subtract 9.”

65. 54

66. 31

67. c

68. d

69. c

70. In order to make enough fruit punch for 60 people, how much of each ingredient will you need to buy and how much will these ingredients cost? Complete the table below to show your answers and show how you arrived at your answers in the space below the table.

<b>Ingredient</b>	<b>How much do you need to buy?</b>	<b>What will this cost?</b>
Orange juice	2 gallons	\$7.90
Lemon juice	0	0
Club soda	1 gallon	\$2.00

Total Cost = \$9.90

\$7.90 for orange juice

\$2.00 for club soda

No lemon juice needs to be

bought.

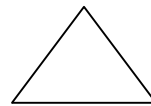
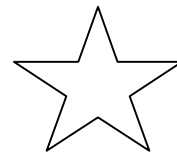
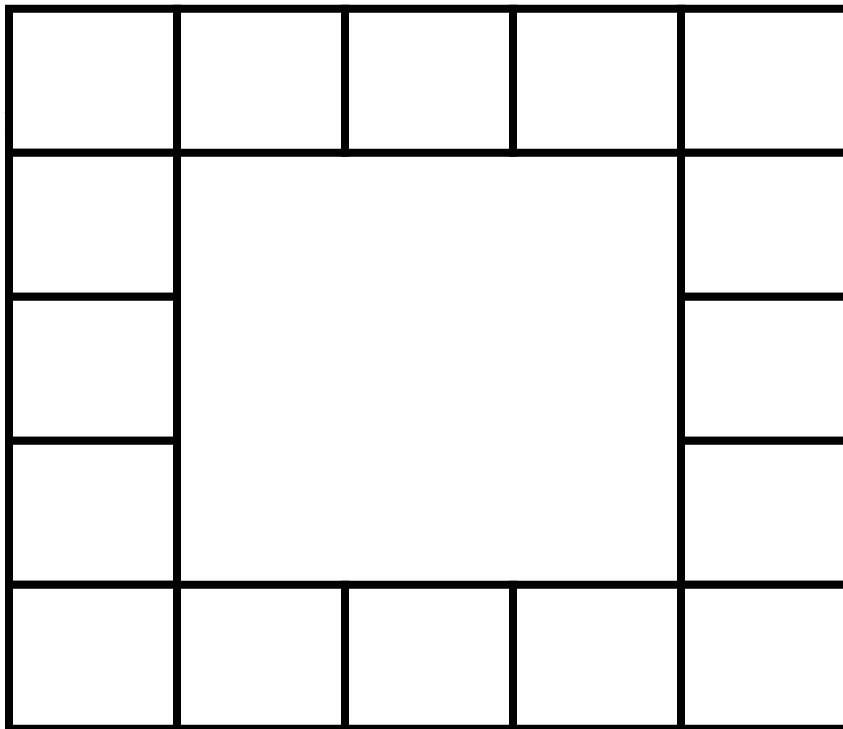
**Total Cost: \$9.90**

Student work may vary because they can compute the answers using cups, pints, quarts, or gallons as their units of measure.

71. Show one way they can spend their money. Determine what they will do and what they will eat. Explain your thinking.

Student work will vary. Answers must include a total that is more than \$35 and less than \$40. The work must demonstrate that all children will play either of the games and eat/drink.

72. Use the framework to create a pattern. Each box should have one polygon



Explain the pattern.

Student answers may vary. A sample pattern of the framework could be:  
2 stars, 1 triangle, 1 square, 2 stars, 1 triangle, 1 square, etc. Other sample patterns can be created when students place either a triangle or a square in between the two stars.

73. Show how many of each type of jewelry could have been sold that day. Show or explain how you arrived at your solution and how you calculated the profit.

Student answers will vary. The work must indicate the profit made. A possible range for profit could be \$190-\$210. The amounts of each type of jewelry should be shown. Calculations of the profit should also be shown.

74. Use the information from the problem, including taking a 45 minute lunch break, to plan a day at the science center that includes at least 2 hours in the exhibits and at least one demonstration, one lecture and one movie. A schedule that shows your plan should be included. The exhibits chosen must be indicated on the schedule.