Unit 4 Page 54	Instructions Take the challenge		Answers 4 9 7 7 4 8 9 4 5 7 6 6 4 9 9 7 8 8 8 6 5 5 6 5 5			
55	Look, read and complete.	20 cm 8000 cm³				
55	Look and calculate the volume of the cubes.	343 000 cm ³ 4096 feet ³	1728 feet ³ 2097.152 cm ³ 512 000 cm ³ 523.606 cm ³			
56	Pyramid with a rectangular base	10 cm 3 cm 30 cm Yes				
56	Pyramid with a triangular base	3 cm 4 cm 6 cm ²				
57		6 6 6 36 36 Yes				
57	Calculate the volume of rectangular prisms.	4608 cm³ 480 m³				
57-58	Time to do some research!	Answers may vary.				
59	Talk to a friend and write the formulas to calculate the volume of all the shapes.	Answers may vary.				
60	Take the challenge	1/8	5/16 9/16			
		1/2	1/4 2/8			
		3/8	7/16 3/16			
60	Look at an example of a proportion. Then write two more examples.	Answers may vary.				

Page 61	Instructions Read and complete the paragraph.	Answers liters / price / 6 / 9
61	Try this!	4,8,12,16,20,24,28,32,36,40,44,48,52,56,60 26,52,78,104,130,156,182,208
62		Yes
62-63	Try these word problems.	On Saturday The first day Ratios are equivalent 16-year olds
64	Percent	Answer may vary. 25/100 83/100 60/100 95/100
64	Create a ratio box – analyze how the information was organized.	1 Kids of other ages2 Number of kids of other ages3 Total number of kids
65	Read and organize the information in the table. Then follow the whole process to find the answer.	Step 1 60 / 100 = 45.60 / s Step 2 45.60 X 1000 = 4560 / 60
66	Read and solve the percent problems.	1 40 2 28 3 16
67	Take the challenge	Answers may vary. Ex. Number 10 $10 + 5 = 15 \times 3 = 45 - 15 = 30 \div 3 = 10$
67	Read the definitions and decide on which concept is being described.	a) sequence b) pattern
68	Read and provide the information.	Example 1 28,31,34,37,40,43,46 3
		Example 2 43,48,53,58,63,68,73,78 5

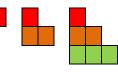
Page 68	Instructions Read and choose the correct answer.	Answers a)
68	Read and write numbers.	a) 10,7,13,10,16,13,19,16,22,19 b) 16,14,19,17,22,20,25,23,28,26,31 c) 3,11,4,12,5,13,6,14,7,15,8 d) 5,9,6,10,7,11,8,12,9,13,10
69	Geometric sequences	Example 1 512,1024,2048,4096,8192
		2
		Example 2 6561,19683,59049,177147,531441
		3
69	Read and write numbers.	5,15,45,135,405,1215,3645,10935,32805
		4,12,36,108,324,972,2916,8748,26244
		6,18,54,162,486,1458,4374,13122,39366
		5,10,7,14,11,22,19,38,35
		3,15,6,30,21,105,96,480,471
		6,18,26,78,86,258,266,798,806
		7,28,39,156,167,668,679,2716,2727
70	Triangular numbers	10 dots = 1 + 2 + 3 + 4 = 10 15 dots = 1 + 2 + 3 + 4 + 5 = 15 21 dots = 1 + 2 + 3 + 4 + 5 + 6 = 21 28 dots = 1 + 2 + 3 + 4 + 5 + 6 + 7 = 28
71	Square numbers	$3^2 = 3 \times 3 = 9$ $4^2 = 4 \times 4 = 16$ $5^2 = 5 \times 5 = 25$ $6^2 = 6 \times 6 = 36$ $7^2 = 7 \times 7 = 49$ $8^2 = 8 \times 8 = 64$ $9^2 = 9 \times 9 = 81$ $10^2 = 10 \times 10 = 100$

Page Instructions

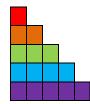
72 Cube numbers

Answers

$$\begin{array}{lll} 27 & - \text{ third} & = 3 \times 3 \times 3 = 27 \\ 64 & - \text{ fourth} & = 4 \times 4 \times 4 = 64 \\ 125 & - \text{ fifth} & = 5 \times 5 \times 5 = 125 \\ 216 & - \text{ sixth} & = 6 \times 6 \times 6 = 216 \\ 343 & - \text{ seventh} & = 7 \times 7 \times 7 = 343 \end{array}$$







73 How would you complete this number board?

10

1	1	1	1	1	1	1	1	1	1	1
1	2	3	4	5	6	7	8	9	10	
1	3	6	10	15	21	28	36	45		="
1	4	10	20	35	56	84	120		_	
1	5	15	35	70	126	210		•		
1	6	21	56	126	252		_			
1	7	28	84	210		-				
1	8	36	120		_					
1	9	45		_						