

Maths 6th Answer Key

Unit 4

Page

Instructions

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

54

Take the challenge

55

Look, read and complete.

20 cm
8000 cm³

55

Look and calculate the volume of the cubes.

343 000 cm³ 1728 feet³ 2097.152 cm³
4096 feet³ 512 000 cm³ 523.606 cm³

56

Pyramid with a rectangular base

10 cm
3 cm
30 cm
Yes

56

Pyramid with a triangular base

3 cm
4 cm
6 cm²

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.

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61	Read and complete the paragraph.	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 ages 2 Number of kids of other ages 3 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 $45.60 \times 1000 = 4560 / 60$
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

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68	Read and choose the correct answer.	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	$3^2 = 3 \times 3 = 9$ $4^2 = 4 \times 4 = 16$ $5^2 = 5 \times 5 = 25$ $6^2 = 6 \times 6 = 36$ $7^2 = 7 \times 7 = 49$ $8^2 = 8 \times 8 = 64$ $9^2 = 9 \times 9 = 81$ $10^2 = 10 \times 10 = 100$

