

Maths 6th Answer Key

Unit 1 Page 5

Instructions

Take the challenge

Answers

Multiples of 2 end in = 0, 2, 4, 6, 8

Multiples of 5 end in = 0 or 5

Multiples of 10 end in = 0

6	11	4
10	5	8
3	7	1
2	9	12

2	11	65
10	5	8
3	7	1
2	9	35

60	11	40
10	5	80
3	7	1
2	9	120

5 Read and complete.

$6 \times 8 = 48$...multiple of 6 and 8.

5 Find two common multiples in each set.

Suggested answers

- a) 20
- b) 24
- c) 6
- d) 28

6 Find three common multiples in each set of numbers. Then circle the lowest common multiple.

- a) 24
- b) 90
- c) 84

6 Write all the multiples of the numbers up to 100. Then answer the question.

Did you find any common multiple for the three numbers? No.

4- 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100

7- 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98,

9- 9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99

7 Look and put a tick if the number is a multiple of 3 or 5. If it is not a multiple, put a cross.

Multiple of 3	Multiple of 5
✓	X
✓	X
X	X
✓	✓
✓	X
X	✓
✓	✓

7 Read and answer the questions.

1 – 12, 16, 20, 24

2 – 12, 18, 24

3 – 28

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8	Take the challenge	2×5 9×2 3 6×4 3×10 5 8×4 3×13 5
8	Read and complete.	Ex. 1 1, 3, 5 and 15 HCF 15 Ex. 2 2 and 3
9	Find the common factors for each of these numbers. Then circle the highest common factor (HCF) for each set of numbers.	a) 8 b) 5 c) 8 d) 5
9		Ex. 36 36 36
10	Draw factor trees for the following numbers.	<p>Factor trees for the following numbers:</p> <ul style="list-style-type: none"> 48: $48 = 2 \times 24 = 2 \times (2 \times 12) = 2 \times 2 \times (2 \times 6) = 2 \times 2 \times 2 \times (2 \times 3) = 2^4 \times 3$ 56: $56 = 2 \times 28 = 2 \times (2 \times 14) = 2 \times 2 \times (2 \times 7) = 2^3 \times 7$ 90: $90 = 2 \times 45 = 2 \times (5 \times 9) = 2 \times 5 \times (3 \times 3) = 2 \times 3^2 \times 5$ 132: $132 = 2 \times 66 = 2 \times (2 \times 33) = 2 \times 2 \times (3 \times 11) = 2^2 \times 3 \times 11$ 14: $14 = 2 \times 7$ 42: $42 = 2 \times 21 = 2 \times (2 \times 10.5)$ (Note: The diagram shows 21 = 3 x 7, so $42 = 2 \times 3 \times 7$)

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- 11** Look and write the factors of the numbers. Then read and complete the definition.

1	1	11	1, 11
2	1, 2	12	1, 2, 3, 4, 6, 12
3	1, 3	13	1, 13
4	1, 2, 4	14	1, 2, 7, 14
5	1, 5	15	1, 3, 5, 15
6	1, 2, 3, 6	16	1, 2, 4, 8, 16
7	1, 7	17	1, 17
8	1, 2, 4, 8	18	1, 2, 3, 6, 9, 18
9	1, 3, 9	19	1, 19
10	1, 2, 5, 10	20	1, 2, 4, 5, 10, 20

They are numbers that have only 2 factors; 1 and themselves.

- 12** Take the challenge

$$25 = 5$$

$$81 = 9$$

$$64 = 8$$

$$49 = 7$$

$$16 = 4$$

$$1^2 = 1$$

$$2^2 = 4$$

$$3^2 = 9$$

$$4^2 = 16$$

$$5^2 = 25$$

- 12** Read and complete.

1, 4, 9, 16

- 12** Solve these.

a) 81 b) 64 c) 324
 d) 49 e) 121 f) 1024
 g) 36 h) 625 i) 1936

- 13** Look carefully and solve these.

a) 29 d) 221
 b) 97 e) 13061
 c) 493 f) 769

- 13** Read and find the value of the numbers.

16
 16

Extended form
 a) $3 \times 3 \times 3 \times 3 = 81$
 b) $2 \times 2 \times 2 = 8$
 c) $10 \times 10 \times 10 = 1000$
 d) $4 \times 4 \times 4 \times 4 = 1024$
 e) $5 \times 5 \times 5 \times 5 = 625$

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13 Look and complete the chart.

P	B	I	M	N
4^2	4	2	4×4	16
2^4	2	4	$2 \times 2 \times 2 \times 2$	16
6^3	6	3	$6 \times 6 \times 6$	216
5^4	5	4	$5 \times 5 \times 5 \times 5$	625
10^5	10	5	$10 \times 10 \times 10 \times 10 \times 10$	100000
3^4	3	4	$3 \times 3 \times 3 \times 3$	81

14 Read and answer the questions.
Write complete math sentences.

- a) 361
19 to the power of 2 is 361.
- b) 169
The next square number after 144 is 169.
- c) 19
The square root of 361 is 19.
- d) 14 641
11 to the power of 4 is 14 641.
- e) 196
14 squared is 196.

14 Read and write the square root of each of the numbers below.

- a) 8
- b) 5
- c) 9
- d) 30
- e) 12
- f) 7

15 Read and calculate the square root.

- a) 24^2
- b) 26^2
- c) 31^2
- d) 35^2

16 Look carefully and solve these.

- a) $8 + 10 = 18$
- b) $17 - 11 = 6$
- c) $39 - 36 = 3$

16 Estimate each of the following roots. Then use a calculator to check your estimates and, when the answer is not a whole number, round the number to the nearest tenth.

- b) $12.7279 = 12.7$
- c) $16.5831 = 16.6$
- d) $27.0185 = 27.0$
- e) $17.1464 = 17.1$
- f) $22.4053 = 22.4$