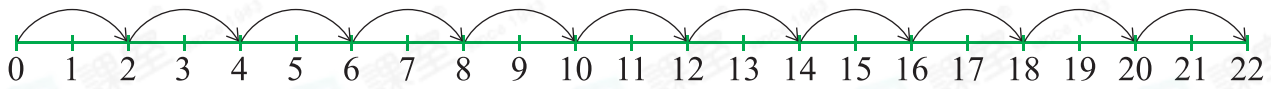
10 Multiples and Factors

Date: _____

Mark: _____

Answer the following questions.

1.



The first multiple of 2 is _____. The tenth multiple of 2 is _____.

2.

The second multiple of 3 is _____. The seventh multiple of 3 is _____.

3.

18 = _____ × _____

= _____ × _____

= _____ × _____

All factors of 18 are:

_____

4.

50 = _____ × _____

= _____ × _____

= _____ × _____

All factors of 50 are:

_____

Circle the specified numbers.

5. Prime numbers

2 1 41 25

6. Composite numbers

12 9 7 39

STEAMpedia

Scientists found that the life cycles of some cicadas are prime numbers. In the North America, some cicadas have life cycles of 13 and 17 years. Scientists call these two kinds of cicadas as 'periodical cicadas'.

7. Odd composite numbers

15 52 37 21 97

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8. 33 is a ☆ factor / multiple (☆ circle the answer) of 11.
11 is a ☆ factor / multiple (☆ circle the answer) of 33.

9. Which of the following numbers has 3 factors only?

○ A. 3 ○ B. 6 ○ C. 9 ○ D. 20

10. There are _____ prime numbers within 20.

11. What is the sum of the smallest and greatest multiples of 18 between 40 and 120?

Answer: _____

12. Henry is playing a coin tossing game. If he tosses the coin on the box with a prime number, he will win a prize. Draw a '×' on the prize-winning boxes.

1	13	21	7
18	2	16	25
19	51	44	75

13. The first 6 multiples of m are:

m, 42, 63, 84, 105, 126

Which of the following numbers is not a factor of m?

○ A. 1 ○ B. 3 ○ C. 5 ○ D. 7

Scoring Key

m = (the n^{th} multiple of m) ÷ n

14. Advanced

Noah is 12 years old this year. His age is a multiple of Oliver's age. Given that Noah and Oliver were not born in the same year, list all possible ages of Oliver.

Answer: _____ year(s) old

Brain Quest

Detailed tips

M *N*

M is a 1-digit composite number, *N* is a 1-digit prime number. The smallest prime number formed by *M* and *N* is _____.

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