

Connections

Add **ONE WORD** to each of the three items in the lists below to form a familiar word or phrase. The mystery word can be placed **before** or **after** the clues. Write the word that makes the connection in the blank to the left.

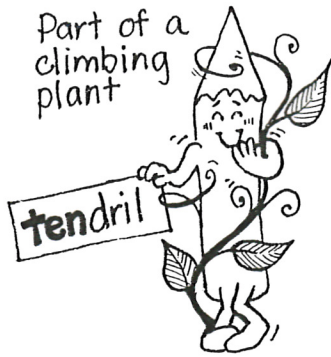


Example:

_____ copy _____ hard _____ cat _____ right

- | | | | |
|-----------|--------|-----------|----------|
| _____ 1. | smith | bird | berry |
| _____ 2. | turtle | sand | pencil |
| _____ 3. | fall | melon | salt |
| _____ 4. | good | gown | watchman |
| _____ 5. | dinner | coffee | periodic |
| _____ 6. | draw | stand | hold |
| _____ 7. | Orange | Super | Cotton |
| _____ 8. | way | side | moon |
| _____ 9. | dust | mine | coin |
| _____ 10. | hub | size | blasting |
| _____ 11. | white | cloth | car |
| _____ 12. | hatter | scientist | magazine |
| _____ 13. | finish | side | bee |

Part of a
climbing
plant



TOP "TEN"

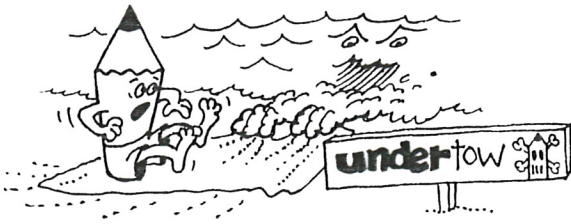
Each clue below suggests a word that contains the consecutive letters T-E-N. Don't stop with the top ten—try for all fifteen!

1. A sport
2. Nervous
3. Outdoor dwelling
4. A squid's arms
5. Cords in your body
6. Delicate
7. Decayed
8. To make believe
9. Many times
10. Satisfied
11. Baby feline
12. To look after
13. An apartment dweller
14. Hand covering
15. A kitchen implement

"UNDER" WHERE?

A dangerous
current along
the seashore

Each clue below suggests a word that begins with the smaller word UNDER. This one is a real undertaking!



1. Not old enough
2. Where deodorant is applied
3. Not heavy enough
4. To comprehend
5. Type of pitch
6. The team expected to lose
7. Works at a funeral home
8. Working secretly
9. Dig out the earth beneath
10. Where oil is found
11. Mark a word for emphasis
12. To experience
13. A substitute actor or actress
14. Shrubs in a forest
15. Where belugas are found



Input/Output

Find the rule for each input/output function and fill in the missing spaces.

1. Input	3	6	9	12	15
Output	36	72	_____	_____	_____

The rule: _____

2. Input	3	5	9	18	20
Output	9	_____	_____	54	_____

The rule: _____

3. Input	4	6	8	10	12
Output	2	_____	4	_____	6

The rule: _____

4. Input	6	12	15	21	24
Output	19	25	_____	_____	_____

The rule: _____

5. Input	12	14	16	18	20
Output	_____	36	_____	40	_____

The rule: _____

6. Input	35	45	55	65	75
Output	34.5	_____	_____	_____	74.5

The rule: _____

Solve the puzzles below by determining what number belongs in each colored circle. Each color in a puzzle represents a unique, positive number. When you have solved each equation, write the number for each color in the solutions box and check your answers at the back of the book.

PUZZLE 85

$$\text{X} + \text{X} + \text{Z} = 22$$

$$\text{Z} + \text{X} + \text{Z} + \text{X} = 26$$

$$\text{Z} + \text{Y} + \text{Z} = 14$$

SOLUTION

<input type="text"/>	<input type="text"/>	<input type="text"/>
X	Y	Z

PUZZLE 86

$$\text{Y} + \text{X} + \text{Y} = 9$$

$$\text{Z} + \text{Z} + \text{X} = 17$$

$$\text{Y} + \text{Z} = 12$$

SOLUTION

<input type="text"/>	<input type="text"/>	<input type="text"/>
X	Y	Z

PUZZLE 87

$$\text{Z} + \text{X} + \text{Y} = 14$$

$$\text{Y} + \text{Z} + \text{Z} = 17$$

$$\text{Y} + \text{Z} - \text{X} = 6$$

SOLUTION

<input type="text"/>	<input type="text"/>	<input type="text"/>
X	Y	Z

Solve the puzzles below by determining what number belongs in each colored circle. Each color in a puzzle represents a unique, positive number. When you have solved each equation, write the number for each color in the solutions box and check your answers at the back of the book.

PUZZLE 88

$$x + x + x + z = 24$$

$$z + x - y = 6$$

$$y + z + x = 14$$

SOLUTION

Three empty circles for the solution, labeled x, y, and z from left to right.

PUZZLE 89

$$z + x = 8$$

$$y + z + z = 17$$

$$y + x + x = 9$$

SOLUTION

Three empty circles for the solution, labeled x, y, and z from left to right.

PUZZLE 90

$$x + y + y = 13$$

$$y + z + z + y = 22$$

$$z + x + y = 16$$

SOLUTION

Three empty circles for the solution, labeled x, y, and z from left to right.