

# What Is the Best Way To Become an Astronaut?



Choose the correct answer for each exercise and circle the number-letter pair next to it. Write the letter in the matching numbered box at the bottom of the page.

**Set 1. Simplify.**

- |                     |                       |
|---------------------|-----------------------|
| a. $12 + (5 - 9)$   | d. $(-5)(-4)(-18)$    |
| b. $-7(-1 + 8)$     | e. $16 - (-3 - 8)$    |
| c. $20 - (-3) + 15$ | f. $[-2 - (-9)] + 75$ |

**Set 1 Answers**

- |               |     |               |      |
|---------------|-----|---------------|------|
| <b>26 • S</b> | 27  | <b>19 • T</b> | -420 |
| <b>23 • J</b> | -45 | <b>21 • E</b> | 38   |
| <b>16 • D</b> | 8   | <b>9 • F</b>  | 92   |
| <b>14 • A</b> | 82  | <b>8 • C</b>  | -49  |
| <b>30 • B</b> | 30  | <b>5 • O</b>  | -360 |

**Set 2. Simplify.**

- |                                  |                                  |
|----------------------------------|----------------------------------|
| a. $(-3 \cdot 4) + (-4 \cdot 3)$ | d. $100 - (-50) + (-25)$         |
| b. $(21 - 30)(-12 + 1)$          | e. $(-30 - 30) \div (-5)$        |
| c. $(-5)^3(-1)^{10}$             | f. $(-64 \div 8) + (-81 \div 9)$ |

**Set 2 Answers**

- |               |     |               |      |
|---------------|-----|---------------|------|
| <b>19 • A</b> | 99  | <b>2 • O</b>  | -125 |
| <b>30 • E</b> | 12  | <b>28 • I</b> | 110  |
| <b>12 • T</b> | -20 | <b>23 • U</b> | -24  |
| <b>18 • R</b> | -9  | <b>15 • N</b> | -17  |
| <b>9 • H</b>  | 125 | <b>24 • S</b> | 15   |

**Set 3. Simplify.**

- |                                 |  |
|---------------------------------|--|
| a. $\frac{-13 + 5}{13 - 15}$    | d. $\frac{-140}{14} + \frac{140}{-10}$ |
| b. $(-2)^4(-10)^2$              | e. $5(-3)^3$                           |
| c. $\frac{(-8)(-8)}{-8 + (-8)}$ | f. $\frac{-77}{-7} - \frac{99}{-99}$   |

**Set 3 Answers**

- |               |     |               |      |
|---------------|-----|---------------|------|
| <b>4 • D</b>  | -30 | <b>10 • O</b> | 4    |
| <b>12 • L</b> | -4  | <b>24 • P</b> | -135 |
| <b>18 • T</b> | 12  | <b>20 • V</b> | -140 |
| <b>11 • R</b> | 15  | <b>28 • A</b> | 1600 |
| <b>1 • G</b>  | -24 | <b>29 • G</b> | 2000 |

**Set 4. Evaluate if  $a = -5$ ,  $b = -8$ , and  $c = 2$ .**

- |                          |                        |
|--------------------------|------------------------|
| a. $abc$                 | d. $2b - (-c)$         |
| b. $3a - b$              | e. $cb^2 + a$          |
| c. $\frac{-a^2 + 1}{4c}$ | f. $\frac{(ac)^3}{5b}$ |

**Set 4 Answers**

- |               |     |               |     |
|---------------|-----|---------------|-----|
| <b>11 • O</b> | -7  | <b>6 • N</b>  | -20 |
| <b>20 • K</b> | 123 | <b>7 • S</b>  | -14 |
| <b>25 • E</b> | 130 | <b>27 • P</b> | 25  |
| <b>4 • T</b>  | 80  | <b>22 • R</b> | -11 |
| <b>17 • I</b> | -80 | <b>29 • C</b> | -3  |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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